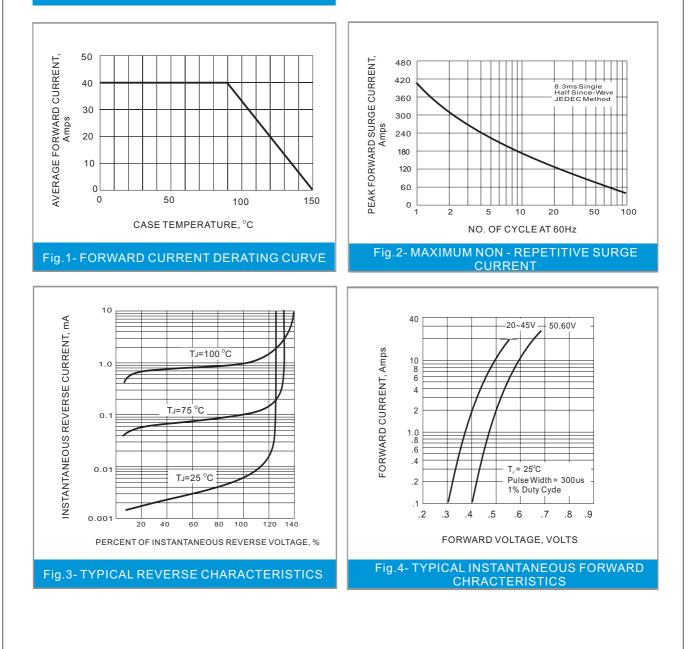
			IEE.						
sheetAU.				•					
S									
SB4020PT~SB4060PT									
ISOLATION SCHOTTKY BARRIER RECTIF	IERS								
VOLTAGE 20 to 60 Volts CURRENT	40 Am	noros	TO-3	P			l	Unit: inch (	(mm)
FEATURES	40 AII	iperes	-						
Plastic package has Underwriters Laboratory			-	6	40(16.25)			.199(5.05)	
Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.					20(15.75)			.175(4.45)	
• Exceeds environmental standards of MIL-S-19500/228			.12	5(3.2)					
<ul><li>Low power loss, high efficiency.</li><li>Low forwrd voltge, high current capability</li></ul>					+	5) 5) 1.3) 0.8)			
High surge capacity.				.8)		.600(15.25) .580(14.75) .839(21.3) .819(20.8)			
<ul> <li>For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.</li> </ul>				.087(2.2)		.58			
Both normal and Pb free product are available :					-        -	3) 2) 2)	-	.095(2.4)	
Normal : 80~95% Sn, 5~20% Pb Pb free: 99% Sn above can meet Rohs environment subs	ance directiv	a request		.126(3.2) .110(2.8)		.170(4.3) .145(3.7) 798(20.25) 777(19.75)			
	ance unectiv	e lequest		50(1.25) 45(1.15)					
MECHANCALDATA					003			.030(0.75)	
Case: TO-3P Molded plastic				225(5.7)		25(5.7)			
Case: TO-3P Molded plastic Terminals: Solder plated, solderable per MIL-STD-202G, Met	hod 208	C		225(5.7) 204(5.2)		225(5.7) 204(5.2)			
-	hod 208				.2	204(5.2)	AC ()-	▶+ 2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any	hod 208	~			.2		-	+ _2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked.	hod 208	~			.2	204(5.2)		► -2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any	Ċ	5			.2	204(5.2)		* -2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams.				204(5.2)	F	Positive CT	AC 3-	+2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC				204(5.2)	F	Positive CT	AC 3-	+ -2	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20%	CTERISTIC: Decified. Sing	le phase, I	half wave	, 60 Hz, re	esistive or	Positive CT	AC 3-		
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER			half wave SB40 30PT	, 60 Hz, re 35PT	ssistive or SB40 40PT	Positive CT	AC 3-	SB40 60PT	UNI
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20%	CTERISTIC: Decified. Sing	le phase, I SB40	half wave	, 60 Hz, re SB40	esistive or	Positive CT inductive	AC 3-		
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER	CTERISTIC: Decified. Sing	le phase, SB40 20PT	half wave SB40 30PT	, 60 Hz, re 35PT	ssistive or SB40 40PT	Positive CT inductive SB40 45PT	AC 3-	60PT	
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage	CTERISTIC Decified. Sing SYMBOL VRM VRMS VDC	SB40 20PT 20	half wave SB40 30PT 30	, 60 Hz, re SB40 35PT 35	ssistive or SB40 40PT 40	Positive CT inductive SB40 45PT 45	AC 3-1 load. SB40 50PT 50	60PT 60	V
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage	CTERISTIC Decified. Sing SYMBOL VRM VRMS VDC	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5	sistive or SB40 40PT 40 28	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42	V V
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine-	CTERISTIC Decified. Sing SYMBOL VRMS VRMS VDC d IAV	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5	SB40 40PT 40 28 40 40	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42	V V V A
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length at Tc =100	CTERISTIC: Decified. Sing	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5	SB40 40PT 40 28 40	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42	V V V
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum Forward Voltage at 20A	CTERISTIC Decified. Sing SYMBOL VRMS VRMS VDC d IAV	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5	SB40 40PT 40 28 40 40	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42	V V V A
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25	CTERISTIC Pecified. Sing SYMBOL VRMS VRMS VDC d Lav IFSM	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35	SB40 40PT 40 28 40 350 1.0	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42 60	V V V A
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length at Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100	CTERISTICS Decified. Sing SYMBOL VRMS VRMS VDC d IAV IFSM VF IR	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35	SB40         40PT           40         28           40         350           1.0         100	Positive CT inductive SB40 45PT 45 31.5	AC 3-1	60PT 60 42 60	V V A A m <sup>2</sup>
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100 Maximum Thermal Resistance	CTERISTIC Decified. Sing SYMBOL VRMS VDC d IAV IFSM VF IR ReJC	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35 0.55	SB40         40PT           40         28           40         350           1.0         100           1.5	204(5.2) Positive CT inductive SB40 45PT 45 31.5 45	AC 3-1	60PT 60 42 60	V V V A A
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length at Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100	CTERISTICS Decified. Sing SYMBOL VRMS VRMS VDC d IAV IFSM VF IR	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35 0.55	SB40           40PT           40           28           40           350           1.0           100           1.5	204(5.2) Positive CT inductive SB40 45PT 45 31.5 45 45	AC 3-1	60PT 60 42 60	V V A A m <sup>2</sup>
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100 Maximum Thermal Resistance	CTERISTIC Decified. Sing SYMBOL VRMS VDC d IAV IFSM VF IR ReJC	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35 0.55	SB40           40PT           40           28           40           350           1.0           100           1.5	204(5.2) Positive CT inductive SB40 45PT 45 31.5 45 45	AC 3-1	60PT 60 42 60	V V A A m <sup>2</sup>
Terminals: Solder plated, solderable per MIL-STD-202G, Met Polarity: As marked. Standard packaging: Any Weight: 0.2 ounces, 5.6grams. MAXIMUM RATINGS AND ELECTRICAL CHARAC Ratings at 25°C ambient temperature unless otherwise sp For capacitive load, derate current by 20% PARAMETER Maximum Recurrent Peak Reverse Voltage Maximum RMS Voltage Maximum DC Blocking Voltage Maximum Average Forward Current .375"(9.5mm) lead length a t Tc =100 Peak Forward Surge Current :8.3ms single half sine- wave superimposed on rated load (JEDEC method) Maximum DC Reverse Current TA=25 at Rated DC Blocking Voltage TA=100 Maximum Thermal Resistance	CTERISTIC Decified. Sing SYMBOL VRMS VDC d IAV IFSM VF IR ReJC	SB40 20PT 20 14	half wave SB40 30PT 30 21	, 60 Hz, re SB40 35PT 35 24.5 35 0.55	SB40           40PT           40           28           40           350           1.0           100           1.5	204(5.2) Positive CT inductive SB40 45PT 45 31.5 45	AC 3-1	60PT 60 42 60	V V A A m <sup>2</sup>





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