



SCHOTTKY DIODES MODULE TYPE 60A

Features

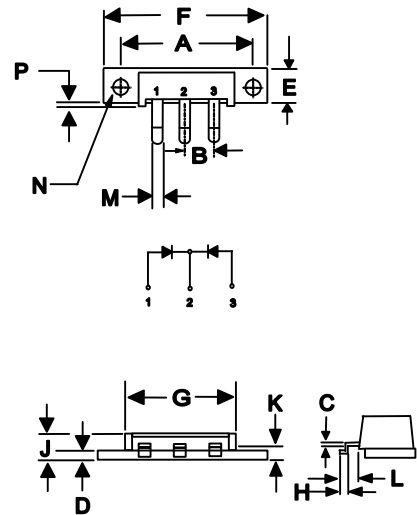
High Surge Capability
Types Up to 100 V V_{RRM}

60Amp Rectifier
10-100 Volts

Maximum Ratings

Operating Temperature: -40°C to $+125^{\circ}\text{C}$
Storage Temperature: -40°C to $+125^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
FST6310L	10V	7V	10V
FST6315L	15V	10V	15V
FST6320L	20V	14V	20V
FST6330L	30V	21V	30V
FST6335L	35V	25V	35V
FST6340L	40V	28V	40V
FST6345L	45V	32V	45V
FST6360L	60V	42V	60V
FST6380L	80V	56V	80V
FST63100L	100V	70V	100V



Electrical Characteristics @ 25°C Unless Otherwise Specified

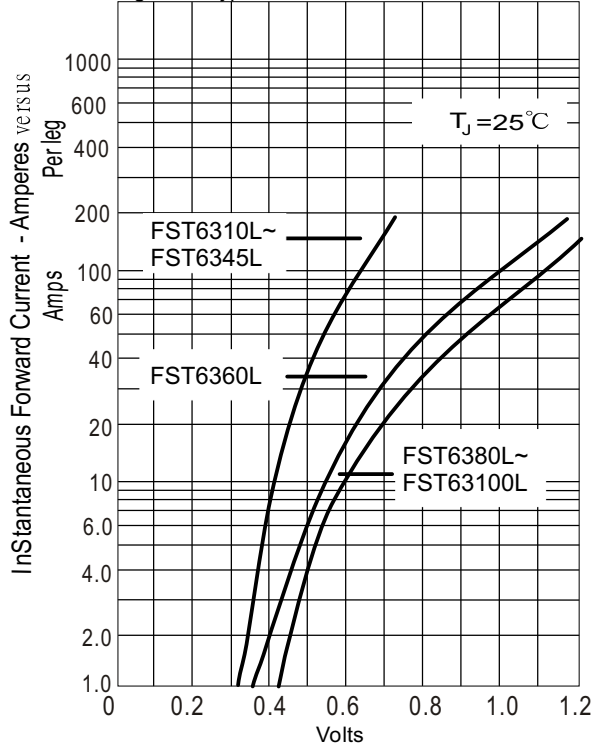
Average Forward Current (Per pkg)	$I_{F(AV)}$	60A	$T_C = 105^{\circ}\text{C}$
Peak Forward Surge Current (Per leg)	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage NOTE (1)	V_F	0.55V 0.75V 0.84V	(FST6310L~FST6345L) (FST6360L) (FST6380L~FST63100L) $I_{FM} = 30\text{A}; T_J = 25^{\circ}\text{C}$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage (Per leg) NOTE (1)	I_R	3.0 mA 500 mA	$T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$
Maximum Thermal Resistance Junction To Case (Per leg)	$R_{\theta jc}$	1.2 $^{\circ}\text{C/W}$	

NOTE :

(1) Pulse Test: Pulse Width 300 usec, Duty Cycle < 2%

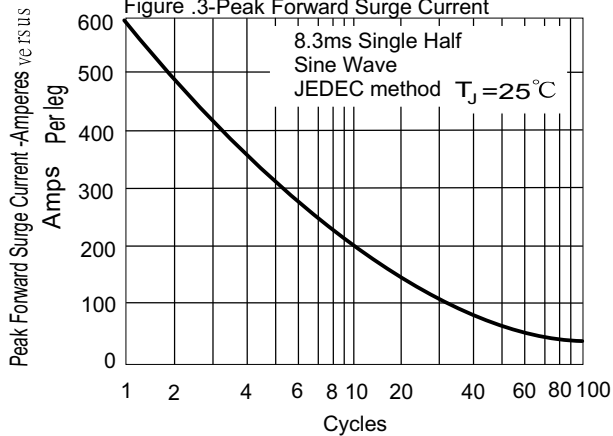
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.180	1.195	29.97	30.35	
B	.200	NOM	5.08	NOM	2PL
C	.027	.037	0.69	0.94	
D	.088	.098	2.24	2.49	
E	.350	.370	8.89	9.40	
F	1.490	1.510	37.85	38.35	
G	.695	.715	17.65	18.16	
H	.104	.124	2.64	3.15	
J	.240	.260	6.10	6.60	
K	.115	.135	2.92	3.43	
L	.230	.250	5.84	6.35	
M	.065	.085	1.65	2.16	
N	.151	.161	3.84	4.09	
P	.015	.025	0.38	0.64	

Figure .1-Typical Forward Characteristics



Instantaneous Forward Voltage - Volts

Figure .3-Peak Forward Surge Current



Number Of Cycles At 60Hz - Cycles

Figure .2-Forward Derating Curve

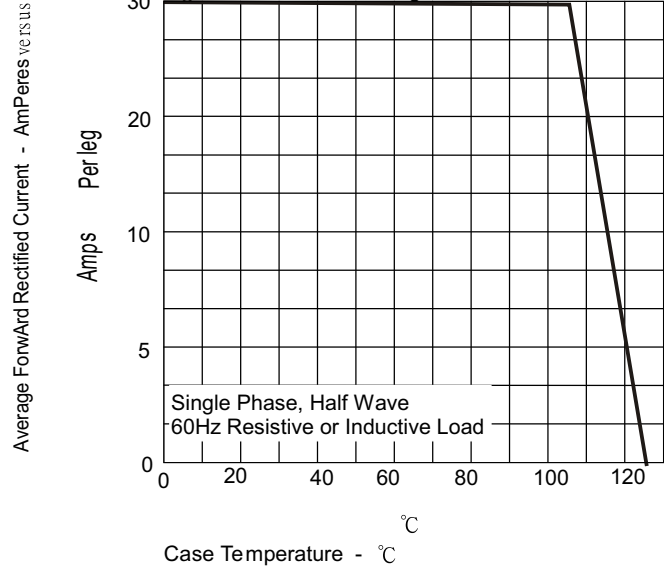


Figure .4-Typical Reverse Characteristics

