

SR735 THRU SR760(SINGLE CHIP)

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 35 to 60 Volts Forward Current - 7.5Amperes

FEATURES

- . Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- . Metal sliicon junction ,majority carriet conduction
- . Guard ring for overcoltage protection
- . Low power loss, high efficiency
- . High current capability ,Low forward voltage drop
- . Single rectifier construction
- . High surge capability
- . For use in low voltage ,high frequency inverters, free wheeling , and polarilty protection applications
- . High temperature soldering guaranteed: 250 $^{\circ}\text{C}/10$ seconds

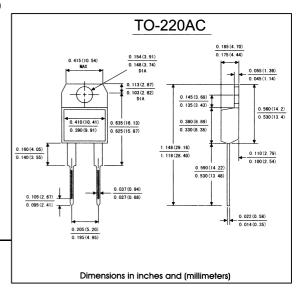
0.25"(6.35mm)from case

MECHANICAL DATA

. Case: JEDEC DO-220AC molded plastic body

. Terminals: lead solderable per MIL-STD-750, method 2026

. Polarity: As marked. Mounting Position: Any. Weight: 0.08 ounce, 2.24 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25° C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive) load. For capacitive load, derate by 20%)

		Symbols	SR735	SR745	SR750	SR760	Units
Maximum repetitive peak reverse voltage		VRRM	35	45	50	60	Volts
Maximum RMS voltage		VRMS	25	32	35	42	Volts
Maximum DC blocking voltage		VDC	35	45	50	60	Volts
Macimum average forward rectified current(see Fig.1)		l(AV)	7.5				Amps
Repetitive peak forward current(square wavr, 20KHz) at Tc=105°C		İFRM	15.0				Amps
Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method)		IFSM	150.0			Amps	
Maximum instantaneous forward voltage at 7.5 A(Note 1)		VF	0.	65	0.	75	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	TA=25℃ TA=125℃	lr	1	1 5	.0	0	mA
Typeical thermal resistance(Note 2)		RθJc	2.5			°C/W	
Operating junction temperature range		TJ	-65 to +150			$^{\circ}$	
storage temperature range		Tstg	-65 to +150			$^{\circ}$	

Notes: 1. Pulse test: $300 \,\mu$ s pulse width,1% duty cycle

2. Thermal resistance from juntion to case



SR735 THRU SR760(SINGLE CHIP)

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 35 to 60 Volts Forward Current - 7.5Amperes

RATINGS AND CHARACTERISTIC CURVES SR735 THRU SR760(SINGLE CHIP)

FLG.1-FORWARD CURRENT DERATING CURVE

AND TEMPERATURE (°C) NERVEY OF IDO 150 LEAD TEMPERATURE (°C)

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

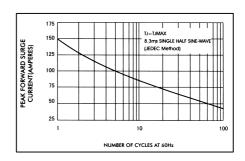


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

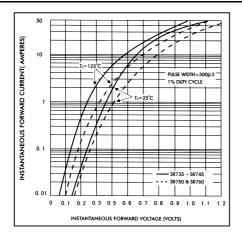


FIG.4-TYPICAL REVERSE CHARACTERISTICS

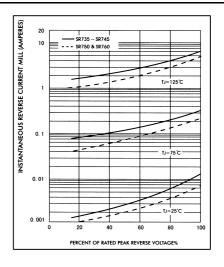


FIG.5-TYPICAL JUNCTION CAPACITANCE

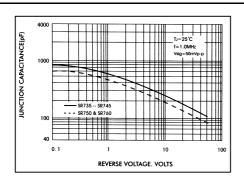


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

