

SRF735 THRU SRF760(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

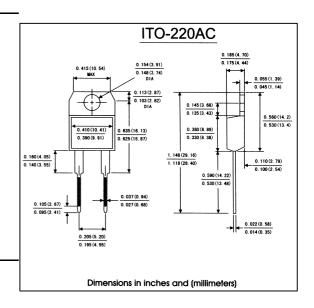
0.25"(6.35mm)from case

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	SRF735	SRF745	SRF750	SRF760	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 TA=25°C	l _R	1.0			mA		
current at rated DC blocking voltage(Note 1) TA=125	***	1	5	5	50	- ma	
Typeical thermal resistance(Note 2)	RθJc	5.0			°C/W		
Operating junction temperature range	TJ	-65 to +150			$^{\circ}$		
storage temperature range	Tstg	-65 to +150			$^{\circ}$ C		

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

2. Thermal resistance from juntion to case



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RATINGS AND CHARACTERISTIC CURVES SRF735 THRU SRF760(SINGLE CHIP)

FLG.1-FORWARD CURRENT DERATING CURVE

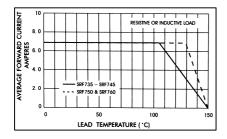


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

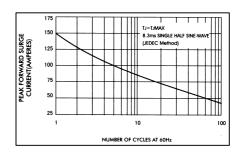


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

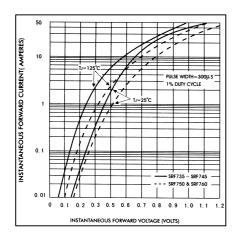


FIG.4-TYPICAL REVERSE CHARACTERISTICS

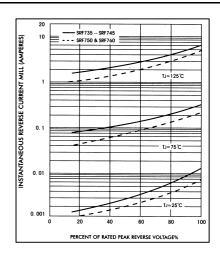


FIG.5-TYPICAL JUNCTION CAPACITANCE

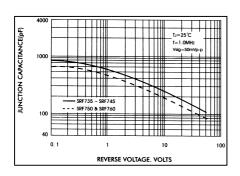


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

