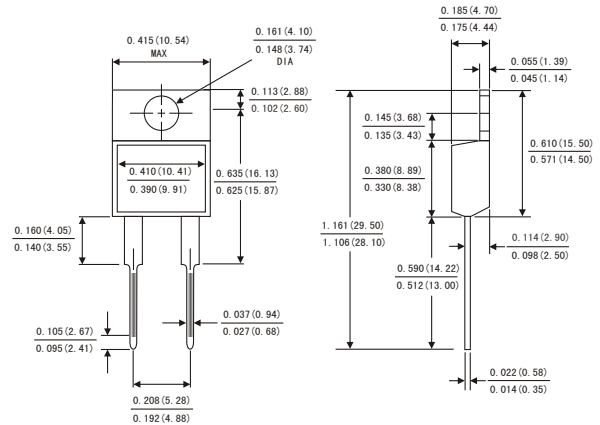


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage 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 polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



TO-220AC



MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

Dimensions in inches and (millimeters)

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	SR 720	SR 730	SR 740	SR 750	SR 760	SR 780	SR 7A0	SR 7150	SR 7200	Units	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS voltage	VRMS	14	21	28	35	42	57	71	105	140	Volts	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current (see fig.1)	I(AV)	7.5									Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	150.0									Amps	
Maximum instantaneous forward voltage at 7.5 A(Notes 1)	VF	0.60			0.75		0.85		0.90	0.95	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Notes 1)	T _A = 25°C T _A = 125°C	IR	0.5								mA	
			15			50						
Typical thermal resistance (Note 2)	RθJC	2.5									°C/W	
Operating junction temperature range	TJ	-65 to +125				-65 to +150						°C
Storage temperature range	TSTG	-65 to +150									°C	

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR720THRU SR7200(SINGLE CHIP)

FIG.1-FORWARD CURRENT DERATING CURVE

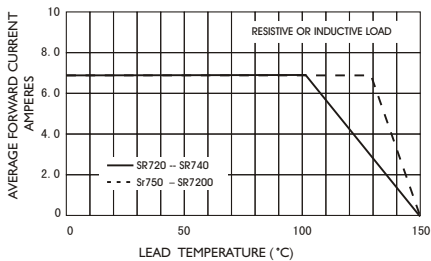


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

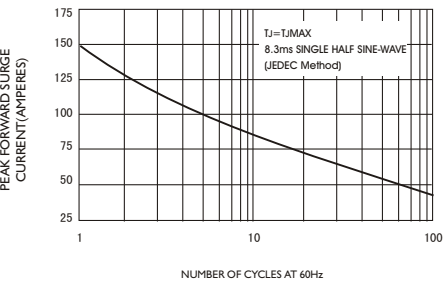


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

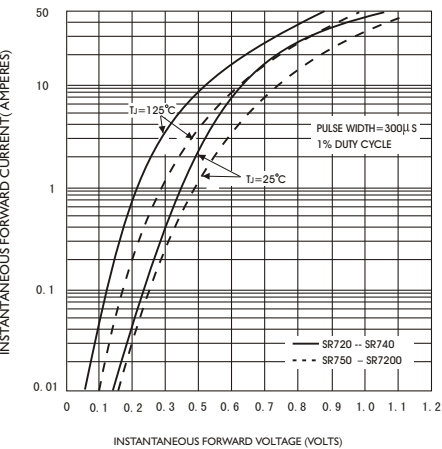


FIG.4-TYPICAL REVERSE CHARACTERISTICS

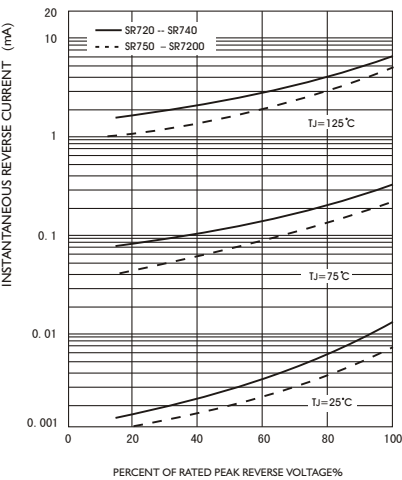


FIG.5-TYPICAL JUNCTION CAPACITANCE

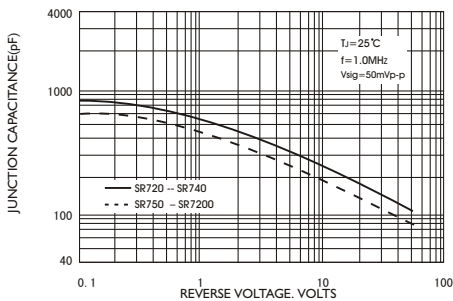


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

