

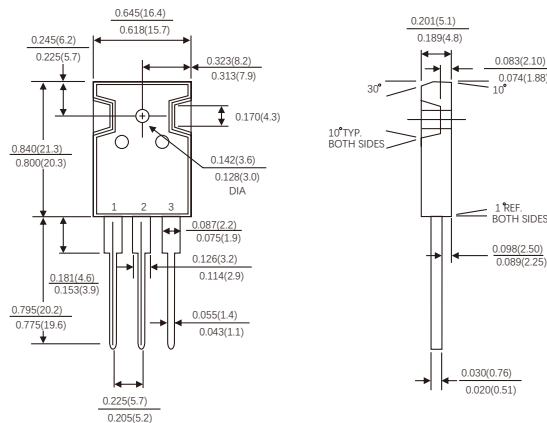
FEATURES

- 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 2015/863/EU

MECHANICAL DATA

- Case: JEDEC TO-247AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

TO-247AB



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%.)

Parameters	Symbols	SR 6040PT	SR 6045PT	SR 6060PT	SR 6080PT	SR 60100PT	SR 60150PT	SR 60200PT	Units	
Maximum repetitive peak reverse voltage	VRRM	40	45	60	80	100	150	200	Volts	
Maximum RMS voltage	VRMS	28	32	42	56	70	105	140	Volts	
Maximum DC blocking voltage	VDC	40	45	60	80	100	150	200	Volts	
Maximum average forward rectified current(see Fig.1)	Per leg	30.0								Amps
	Total device	60.0								
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400								Amps
Maximum instantaneous forward voltage at 30.0 A per diode	VF	0.70		0.75	0.85		0.90	0.95	Volts	
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _J =25°C	100			20				uA	
	T _J =100°C	20			5.0				mA	
Typical thermal resistance (Note 2)	RθJC	1.5								°C/W
Operating junction temperature range	T _J	-55 to+150								°C
Storage temperature range	T _{STG}	-55 to+150								°C

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

2.Thermal resistance from junction to case

FIG.1 - FORWARD CURRENT DERATING CURVE

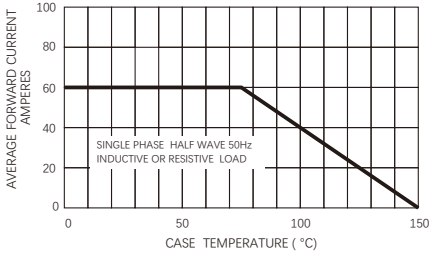


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER DIODE

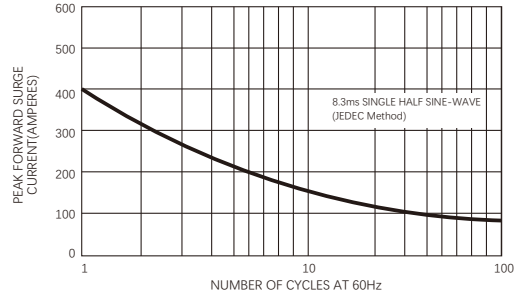


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

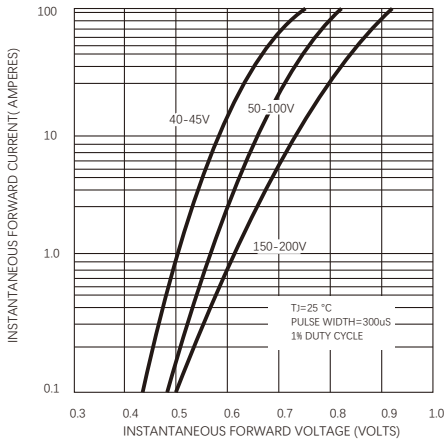
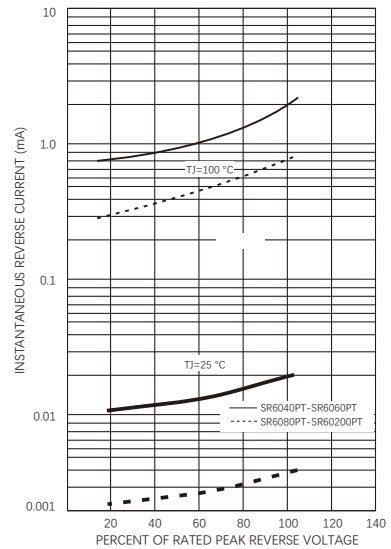


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



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