

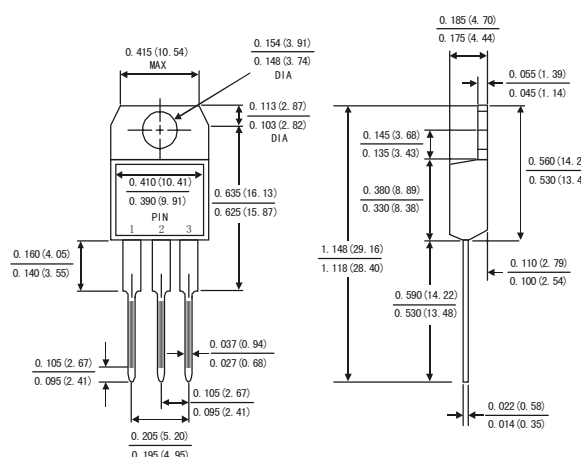
FEATURES

- 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
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:250°C/10 seconds, 0.25"(6.35mm)from case

MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked, No suffix indicates Common Cathode, suffix "A" indicates Common Anode
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 grams

TO-220AB



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%.)

		<i>Symbols</i>	<i>SR 2020</i>	<i>SR 2030</i>	<i>SR 2040</i>	<i>SR 2050</i>	<i>SR 2060</i>	<i>Units</i>
Maximum repetitive peak reverse voltage		VRRM	20	30	40	50	60	Volts
Maximum RMS voltage		VRMS	14	21	28	35	42	Volts
Maximum DC blocking voltage		VDC	20	30	40	50	60	Volts
Maximum average forward rectified current at Tc=105°C		I(AV)	20.0					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 10 A(Note 1)		VF	0.70			0.80		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	Ta = 25°C	IR	1.0				mA	
	Ta = 100°C		30.0		50.0			mA
Typical thermal resistance (Note 2)		RθJC	3.0					
Operating junction temperature range		TJ	-65 to +150					°C
Storage temperature range		TSTG	-65 to +175					°C

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

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR2020 THRU SR2060

FIG.1-FORWARD CURRENT DERATING CURVE

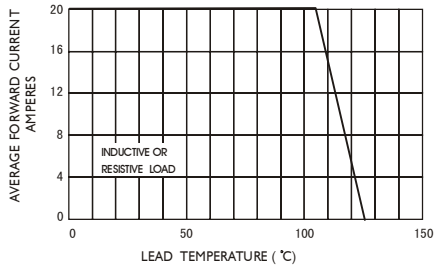


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

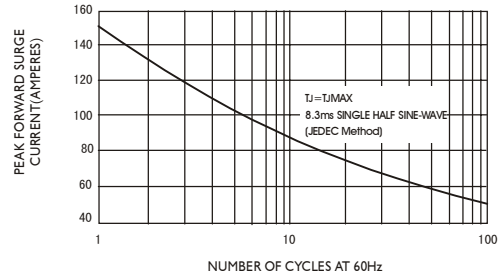


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

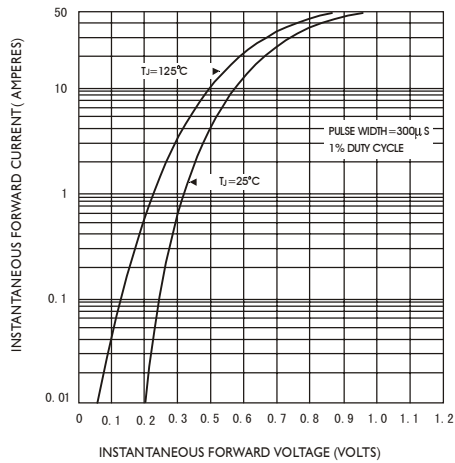


FIG.4-TYPICAL REVERSE CHARACTERISTICS

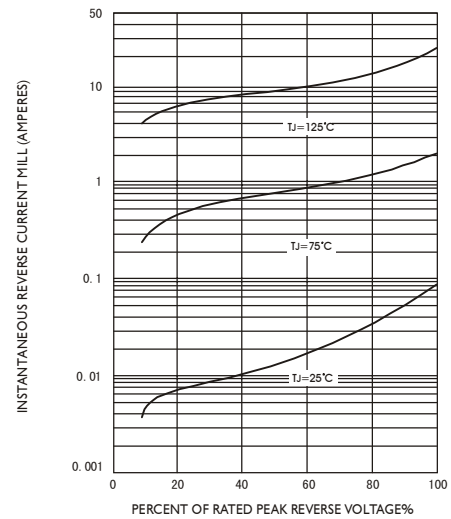


FIG.5-TYPICAL JUNCTION CAPACITANCE

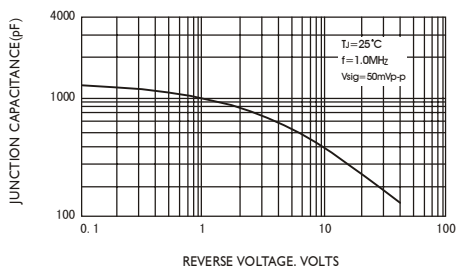


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

