SCHOTTKY BARRIER RECTIFIERS

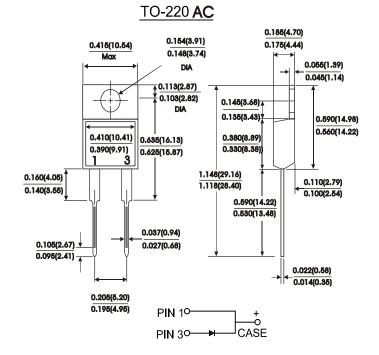
FEATURES:

- Plastic package Underwriters Laboratory
 Flammability Classification 94V-0
- Metal silicon junction
 Majority carrier conduction
- Low powerloss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case: JEDEC TO-220AC molded plastic
Teminals: Leads solderable per MIL-STD-750

Method 2026
Polarity: As marked
Mounting Postition: Any
Mounting Torque 5 in - ibs.max
Weight: 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60 Hz resistive or inductive load.

For capacitive load, derate current by 20%.

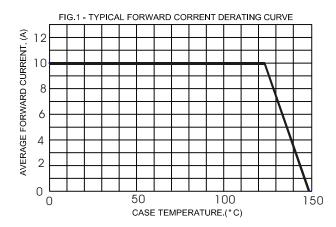
Characteristic	Symbol	SR1020	SR1 030	SR1035	SR1040	SR1045	SR1 050	SR1060	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at (See Fig. 1)	I _(AV)	10							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150						Amps	
Maximum instantaneous forward voltage IF=10A (NOTE 2) IF=20 A	V _F	0.63 0.80 0.84 0.95						Volts	
	IR	0.5 15.0						mA	
Typical thermal resistance (NOTE 1)	R _{th} -JC	2.0						°C/W	
Operating temperature range	Tj	-65to+150						$^{\circ}$	
Storage temperature range	T _{Stg}	-65to+175						$^{\circ}\!\mathbb{C}$	

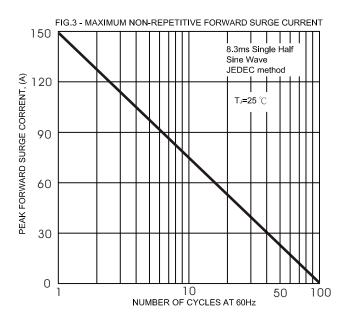
NOTES:

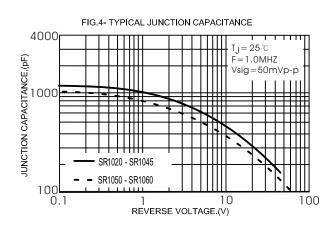
(1)Thermal resistance from junction to case

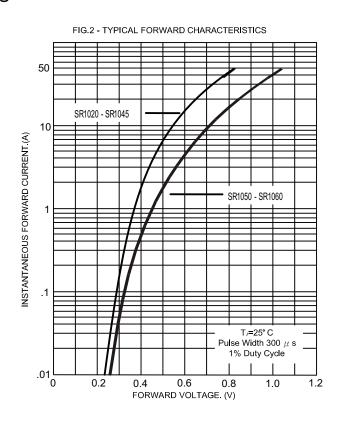
(2)Pulse test: 300 us pulse width, 1% duty cycle

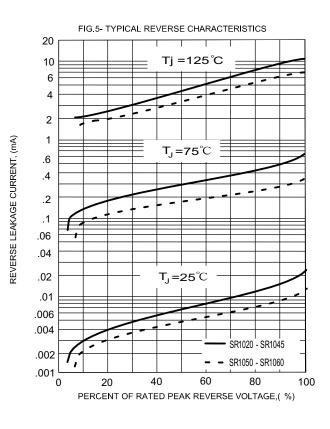
RATINGS AND CHARACTERISTIC CURVES











Feb. 2020

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