SR1020 THRU SR1060

Schottky Barrier Rectifiers Reverse Voltage - 20 to 60 V Forward Current - 10 A

Features

- Plastic package has UL Flammability Classification 94V-0
- · Metal of silicon rectifier, majority carrier conduction
- · Guard ring for transient protection
- · High capability
- · Low power loss, high efficiency
- · High current capability, low forward voltage
- · High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

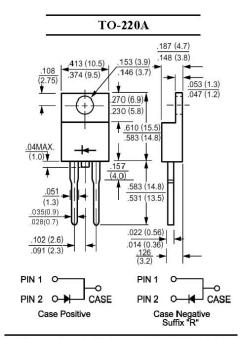
Mechanical Data

· Case: Molded plastic body, TO-220A

•Terminals: leads solderable per MIL-STD-202

method 208

Polarity: As markedMounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

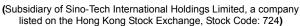
Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%

Parameter	Symbols	SR1020	SR1030	SR1040	SR1050	SR1060	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10					Α
Peak Forward Surge Current 8.3 ms Single half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	250					А
Maximum Forward Voltage at 10 A and 25°C	V_{F}	0.55 0.7			V		
$ \begin{array}{ll} \text{Maximum Reverse Current} & T_{\text{C}} = 25^{\circ}\text{C} \\ \text{at Rated DC Blocking Voltage} & T_{\text{C}} = 125^{\circ}\text{C} \end{array} $	I _R	1 50					mA
Typical Junction Capacitance 1)	CJ	600 400			00	pF	
Typical Thermal Resistance 2)	$R_{ heta JC}$	2					°C/W
Operating Temperature Range	Tj	- (55 to + 12	25	- 55 to	+ 150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150					°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V











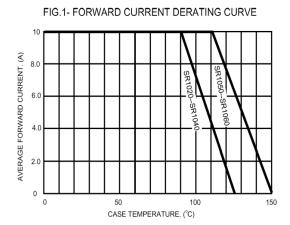


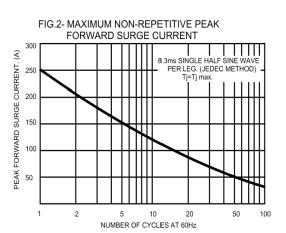


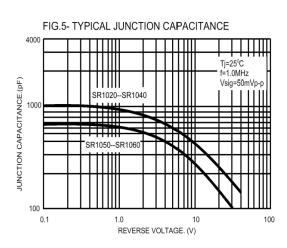


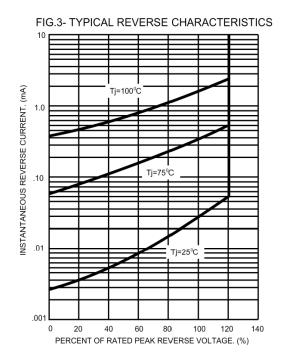
Dated: 02/06/2010 H Rev:01

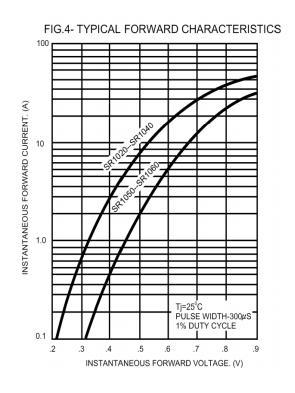
²⁾ Thermal resistance from Junction to case per leg













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