SR1090R THRU SR10100R 查询"SR10100R"供应商

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 90 to 100 V Forward Current - 10 A

Features

- Plastic package has Underwriters Laboratory flammability classifications 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: Molded plastic, TO-220A
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: As marked
- Mounting position: Any

Maximum Ratings and Characteristics

Ratings 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%.

Parameter	Symbols	SR1090R	SR10100R	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	90	100	V
Maximum RMS Voltage	V _{RMS}	63	70	V
Maximum DC Blocking Voltage	V _{DC}	90	100	V
Maximum Average Forward Rectified Current at T _c = 133 °C	I _{F(AV)}	10		А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150		А
Maximum Forward Voltage ¹⁾ at 10 A and $T_c = 25 \degree C$ at 20 A and $T_c = 25 \degree C$	V _F	0.8 0.95		V
Maximum Reverse Current Rated DC Blocking Voltage at $T_J = 25 \text{ °C}$ at $T_J = 125 \text{ °C}$	I _R	0.1		mA
Typical Thermal Resistance Junction to Ambient	R _{eJA}	60 0195		°C/W
Typical Thermal Resistance Junction to Case	R _{0JC}	2		°C/W
Operating Temperature Range	TJ	- 55 to + 150		°C
Storage Temperature Range	T _{stg}	- 55 to + 175		°C

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



TO-220A

413 (10.5)

T

102 (2.6

153 (3.9

146 (3.)

70 (6.9)

230 (5.8)

.531 (13.5

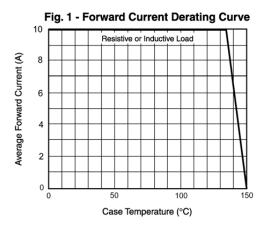
.022 (0

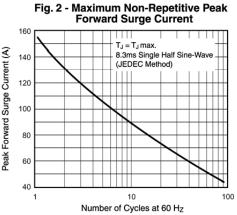
CASE

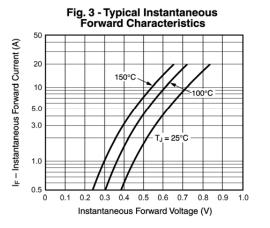
ega

Dimensions in inches and (millimeters)

047(12)







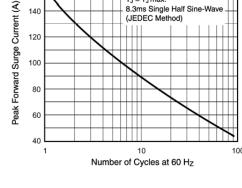
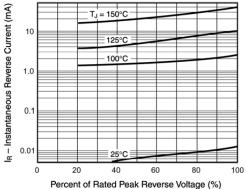
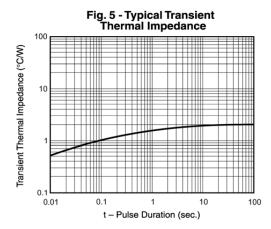


Fig. 4 - Typical Reverse Characteristics





R





Dated : 27/07/2007 H