MBRA120 THRU MBRA100 查询"MBRA130"供应商

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 100 V Forward Current - 1 A

Features

- Plastic package has Underwriters Laboratory flammability classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- · Low power loss, high efficiency
- · High current capability, low forward voltage drop
- · High surge capability

Mechanical Characteristics

- · Case: SMA (DO-214AC), molded plastic body
- Terminals: solder plated, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end

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%.

Parameter	Symbols	MBRA120	MBRA130	MBRA140	MBRA150	MBRA160	MBRA180	MBRA100	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1- WWW-0-							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	IFSM	40							A
Maximum Forward Voltage at 1 A ¹⁾	VF	0.55			0.75 0.		85	V	
Maximum DC Reverse Currentat $T_a = 25 \circ C$ Rated DC Blocking Voltage 1) $T_a = 100 \circ C$	I _R	0.2 10						1	mA
Typical Thermal Resistance ²⁾	R _{θJA} R _{θJL}	88 28 28 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5						56.61	°C/W
Operating Junction Temperature Range	TJ	- 65 to + 125 - 65 to + 150					°C		
Storage Temperature Range	Ts	- 65 to + 150							°C

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

²⁾ P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas

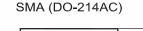


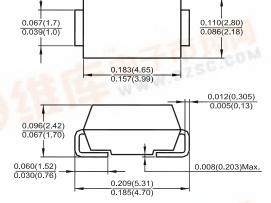
SEMTECH ELECTRONICS LTD.

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



Dated : 07/05/2008 J





Dimensions in inches and (millimeters)

FIG.1-FORWARD CURRENT DERATING CURVE

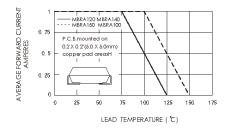


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

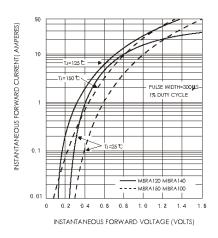


FIG.5-TYPICAL JUNCTION CAPACITANCE

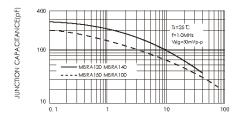


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

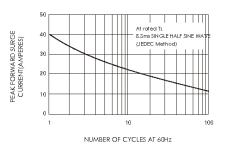
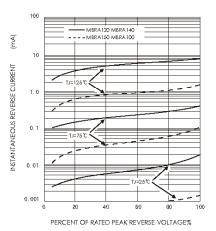


FIG.4-TYPICAL REVERSE CHARACTERISTICS



R



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



Dated : 07/05/2008 J