SURFACE MOUNT SCHOTTKY BARRIER DIODE

Reverse Voltage - 20 V Forward Current - 5 A

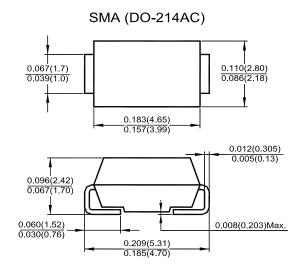
Features

- Small power mold type
- Low forward voltage
- Low reverse current
- · High reliability

Mechanical Data

• Case: SMA (DO-214AC), molded plastic • Epoxy: UL 94V-0 rate flame retardant • Lead: Lead formed for surface mount • Polarity: Color band denotes cathode end

• Mounting Position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical 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	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RM}	25	V
Maximum Reverse Voltage	V_R	20	V
Maximum Average Forward Current 1)	I _{F(AV)}	5	А
Maximum Peak Forward Surge Current (60 Hz, One Cycle)	I _{FSM}	70	А
Maximum Forward Voltage at 3 A	V _F	0.39	V
Maximum Reverse Current at 20 V	I _R	500	μΑ
Junction Temperature	TJ	125	°C
Storage Temperature Range	Ts	- 40 to + 125	°C

 $^{^{1)}}$ T_C = 90 °C max. mounted on epoxy board. 180 ° half sine wave.







AVERAGE FORWARD CURRENT, (A)

FIG.1 - DERATING CURVE ($I_{F(AV)}$ - T_C)

10 DC Sin(Θ=180) 0 100 CASE TEMPERATURE, (°C)

FIG.2 - I_{FSM} - CYCLE CHARACTERISTICS

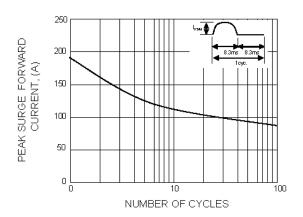


FIG.3 - VF - IF CHARACTERISTICS

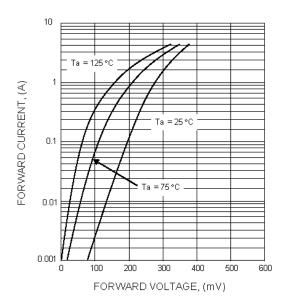
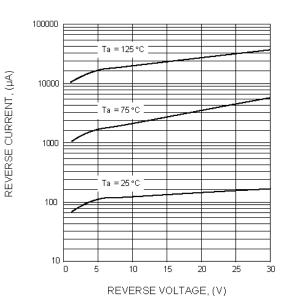


FIG.4 - VR - IR CHARACTERISTICS





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