



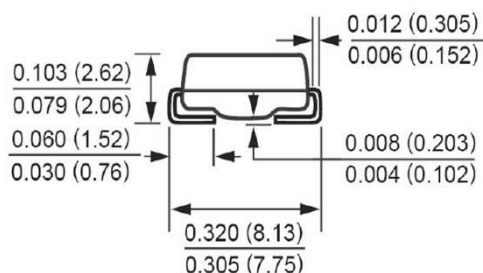
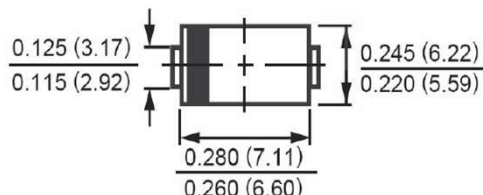
Surface Mount Rectifiers

Reverse Voltage - 2000 Volts
Forward Current - 5.0 Amperes**Features**

- Low reverse leakage
- Glass passivated chip junction
- High forward surge capability
- High temperature soldering guaranteed:
260°C/10seconds at terminals
- Lead and body according with RoHS standard

Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-214AB(SMC)

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Characteristics	Symbol	S5Y	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	2000	V
Maximum RMS voltage	VRMS	1400	V
Maximum DC blocking voltage	VDC	2000	V
Maximum average forward rectified current	I(AV)	5	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	150	A
Maximum peak reverse current full cycle@Ta = 75°C	IR(AV)	50	μA
Maximum forward voltage@IF = 5.0A	VF	1.1	V
Maximum reverse current@Ta=25°C	IR	5.0	μA
@Ta=100°C		250	
MAX. Reverse Recovery Time IF=0.5A, IR=1.0A, IRR=0.25A	Trr	1.8	μS
Typical Junction Capacitance VR = 4.0V, f = 1MHz	CJ	80	pF
Typical thermal resistance	RθJA	35	°C/W
Operating Junction and storage temperature range	TJ,TSTG	-55 to +150	°C



Fig. 1 Forward Current Derating Curve

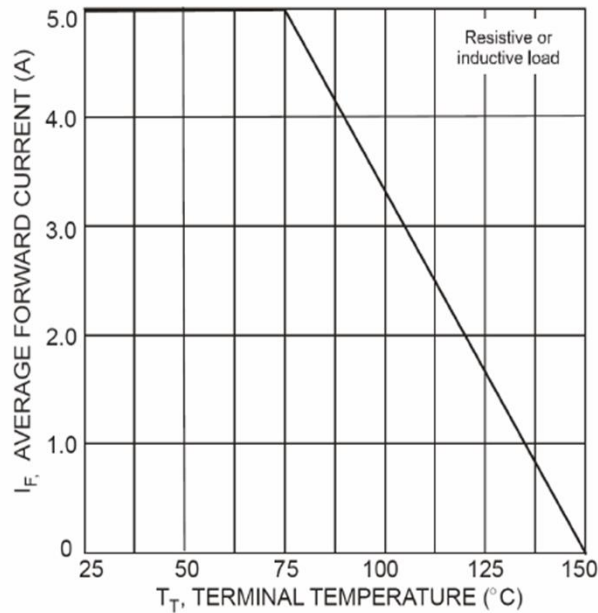


Fig. 2 Typical Forward Characteristics

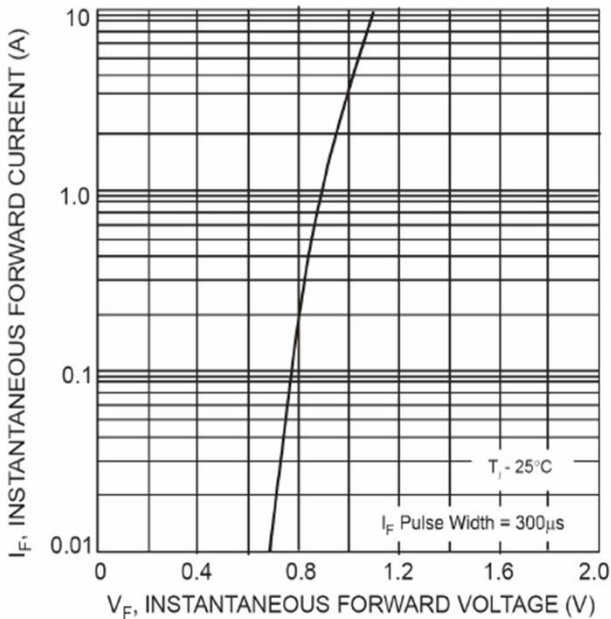


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

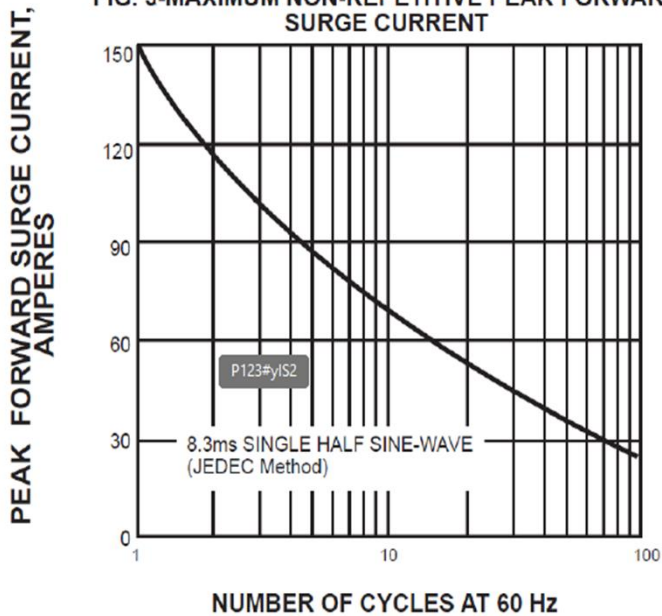
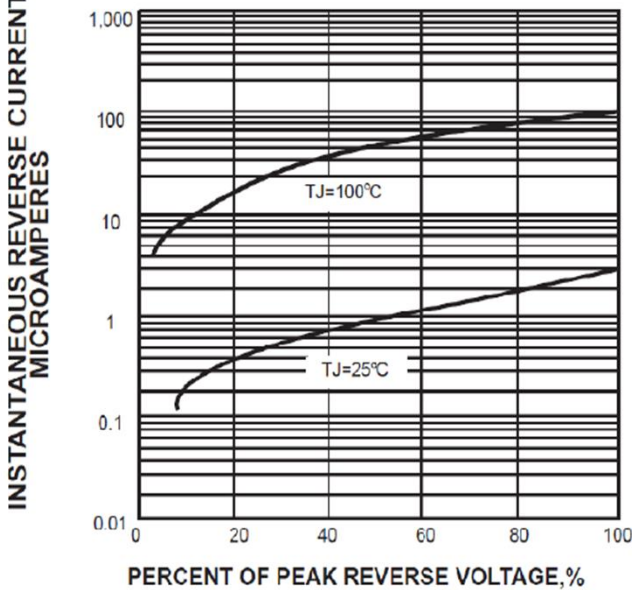


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



The curve above is for reference only.



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