

Features:

- Low reverse leakage
- Glass passivated chip junction
- High forward surge capability
- High temperature soldering guaranteed 260°C/10s seconds at terminals

Mechanical Data:

Case : Molded Plastic body
Terminals : Solder plated
Polarity : Color band denotes cathode end
Mounting Position : Any
Reverse Voltage : 400 Volts
Forward Current : 5 Amperes

Maximum Ratings and Electrical Characteristics:

T_A = 25°C unless otherwise noted.

Characteristics	Symbol	Values	Unit
Max. Repetitive peak reverse voltage	V _{RRM}	400	V
Max. RMS Voltage	V _{RMS}	280	
Max. DC Blocking Voltage	V _{DC}	400	
Max. Average Forward Rectified Current T _L = 75°C	I _{F(AV)}	5	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave	I _{FSM}	100	
Max. Forward Voltage @ I _F = 5A	V _F	1.15	V
Max. Peak reverse current full cycle @T _A = 75°C	I _{R(AV)}	50	µA
Max. Reverse Current at T _A = 25°C T _A = 100°C	I _R	10 250	
Type junction capacitance V _R = 4V, f = 1MHz	C _J	60	pF
Thermal Resistance Junction to ambient	R _{θJA}	47	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}		

Note:

1. The typical data above is for reference only.

Ratings and Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

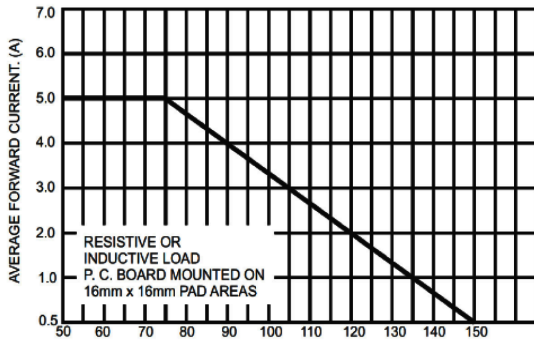


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

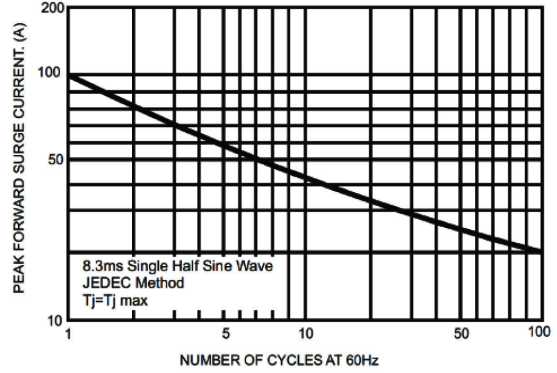


FIG.3- TYPICAL FORWARD CHARACTERISTICS

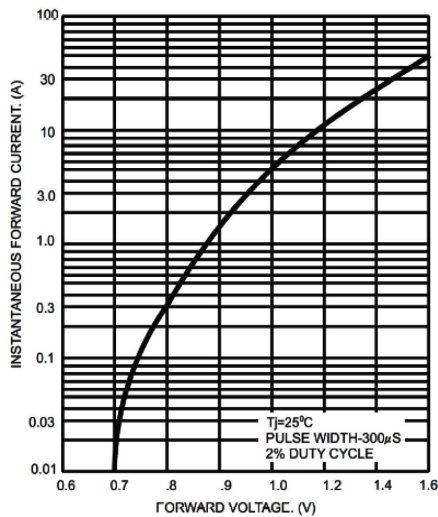


FIG.4- TYPICAL REVERSE CHARACTERISTICS

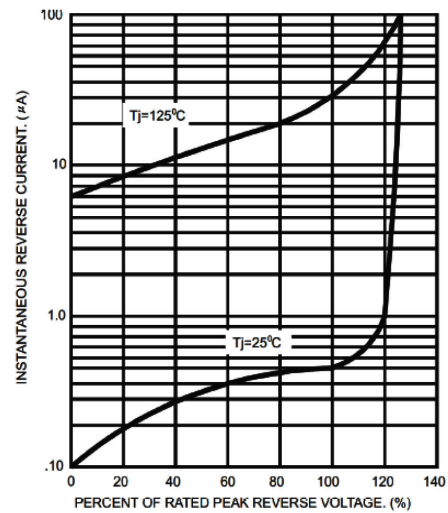
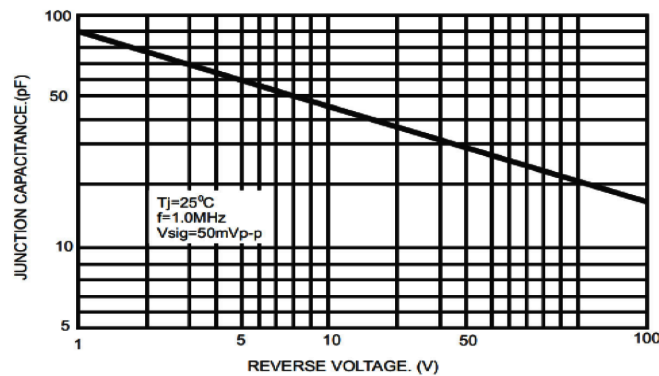
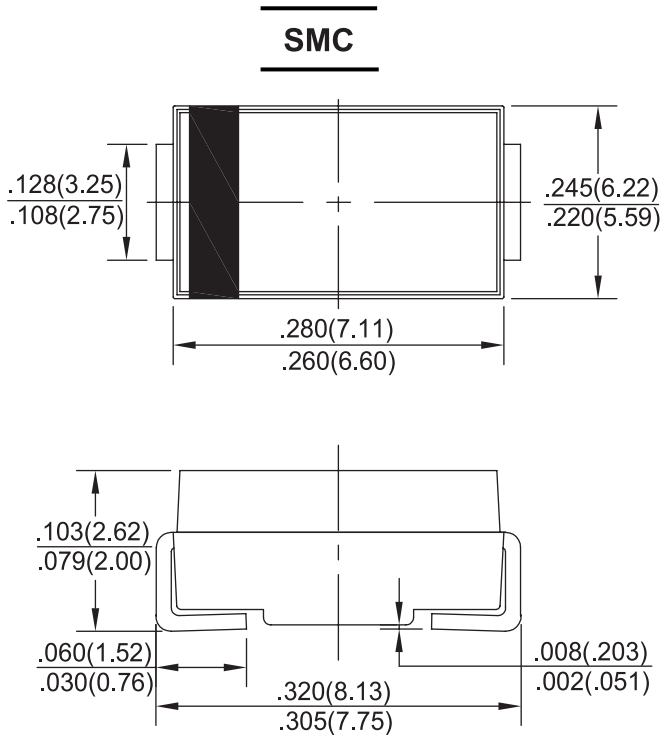


FIG.5- TYPICAL JUNCTION CAPACITANCE



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode Rectifier, 5A 400V SMC	S5G+

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