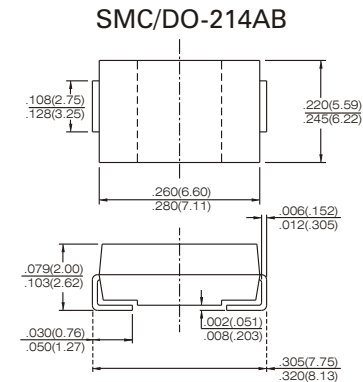
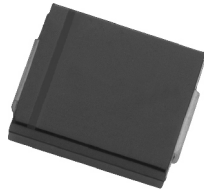


S5AC thru S5MC

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 5.0 AMPERES



Dimensions in inches and (millimeters)

FEATURES

- Glass Passivated Die Construction
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 100A Peak
- Ideally Suited for Automated Assembly

MECHANICAL DATA

Case : Molded plastic
 Case Molded UL flammability rating classification 94V-0
 Moisture sensitivity : Level 1 per J-STD-020A
 Terminals : Solder plated Terminal-solderable per MIL-SRD-202, Method 208
 Polarity : Cathode band or cathode notch
 Weight : 0.21grams (approx)
 Ordering Information : See Page 2

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60Hz, resistive or inductive load
 For capacitive load, derate current by 20%

	SYMBOL	S5AC	S5BC	S5DC	S5GC	S5JC	S5KC	S5MC	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Average Rectified Output Current at $T_J = 75^\circ C$	$I_{(AV)}$	5.0							Amps
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	100							Amps
Forward Voltage @ $I_F = 5.0A$	V_{FM}	1.15							Volts
Maximum DC Reverse Current (NOTE 1) $T_A = 25^\circ C$ at Rated DC Blocking Voltage $T_A = 125^\circ C$	I_R	10 250							μA
Typical Thermal Resistance, Junction to Terminal (NOTE 2)	C_J	40							pF
Maximum Thermal Resistance (NOTE 2)	$R_{\theta JT}$	10							$^\circ C / W$
Operating and Storage Temperature Range	T_J T_{STG}	-65 to +150							$^\circ C$

NOTES :

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
2. Thermal Resistance Junction to Terminal, unit mounted on PC board with 5.0mm² (0.013mm thick) copper pads as Heat Sink.

S5AC thru S5MC

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

RATINGS AND CHARACTERISTIC CURVES S5AC THRU S5MC

Fig. 1 Forward Current Derating Curve

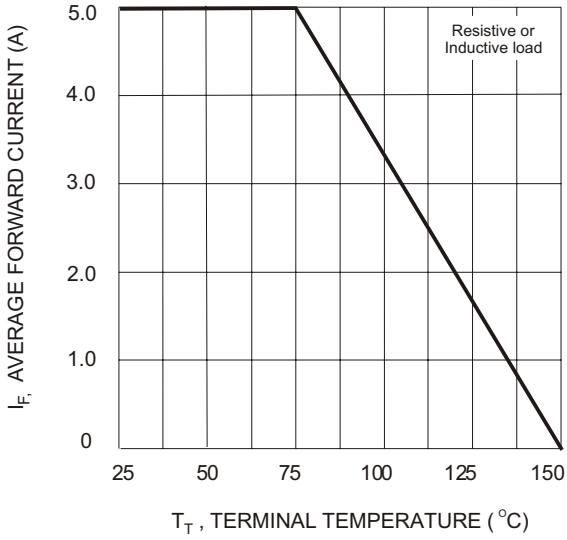


Fig. 2 Typical Forward Characteristics

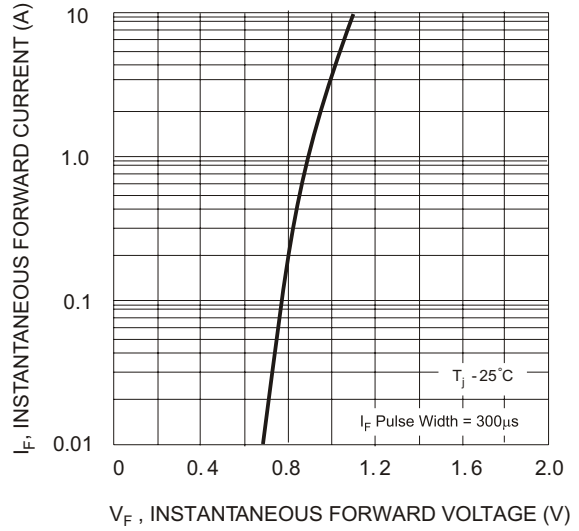


Fig. 3 Forward Surge Current Derating Curve

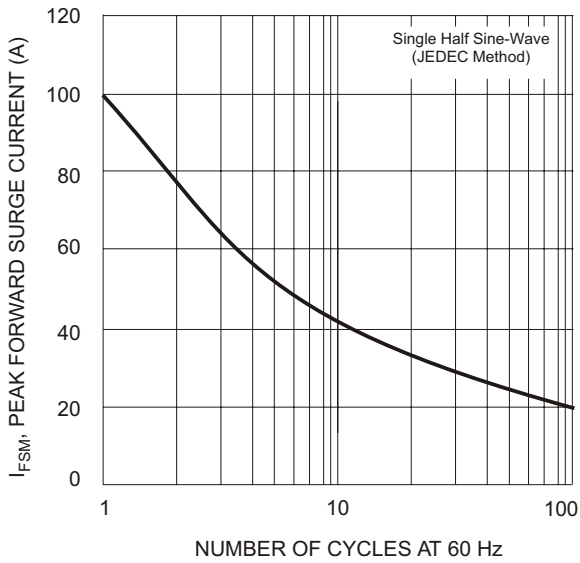


Fig. 4 Typical Reverse Characteristics

