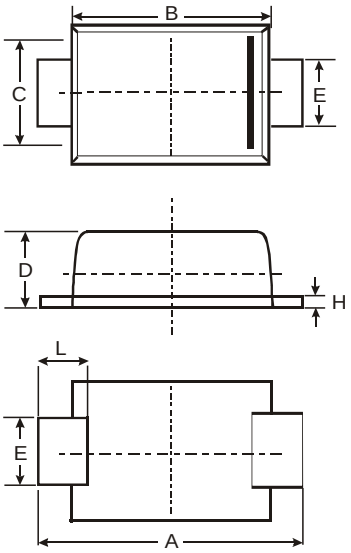
CURRENT 5.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

S5ABF THRU S5MBF

FEATURES

Plastic package has underwrites laboratory flammability Classification 94V-0
For surface mounted applications
Low profile package
Built-in strain relief, ideal for automated placement
Glass Passivated chip junction
High temperature soldering:
250 /10 second at terminals

S M B F



Dim	Min	Max	Typ
A	5.45	5.55	5.50
B	4.27	4.33	4.30
C	3.57	3.63	3.60
D	1.32	1.38	1.35
E	1.96	2.00	1.98
H	0.019	0.021	0.20
L	0.73	0.77	0.75
All Dimensions in mm			

MECHANICAL DATA

Case: JEDED DO-214AA molded plastic over glass passivated chip
Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
Polarity: Color band denotes cathode end
Weight: 0.003ounce, 0.090 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified

		SYMBOLS	S5A	S5B	S5D	S5G	S5J	S53K	S5M	UNIT
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
Maximum Average Forward Rectified Current at T_L =100 (NOTE 3)		$I_{(AV)}$	5.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T_L=100		I_{FSM}	100							Amps
Maximum Instantaneous Forward Voltage at 5.0A		V_F	1.15							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T_A = 25	I_R	10.0							A
	T_A = 125		250							
Typical Reverse Recovery Time (NOTE 1)		t_{rr}	2							us
Typical junction capacitance (NOTE 2)		C_J	60							pF
Typical Thermal Resistance (NOTE 3)		$R_{\theta JL}$	47							/W
		$R_{\theta JA}$	13							
Operating Junction and Storage Temperature Range		T_J,T_{STG}	-55 to +150							

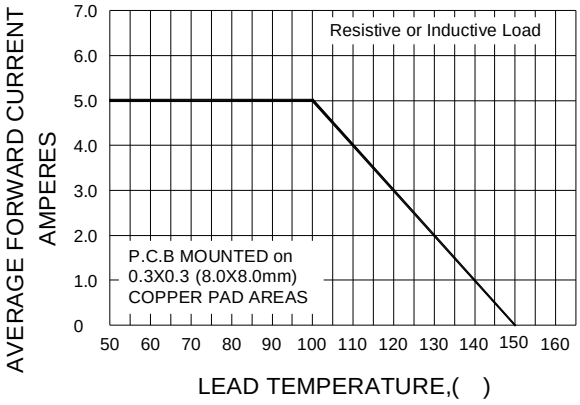
Notes:
1. Reverse recovery test conditions: I_F =0.5A, I_R =1.0A, Irr =0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
3. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3×0.3″ (8.0 × 8.0mm) copper pad areas.

CURRENT 5.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

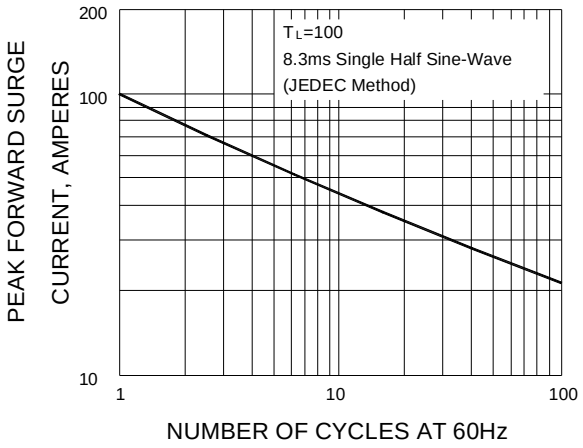
S5ABF THRU S5MBF

RATING AND CHRACTERISTIC CURVES S5A Thru S5M

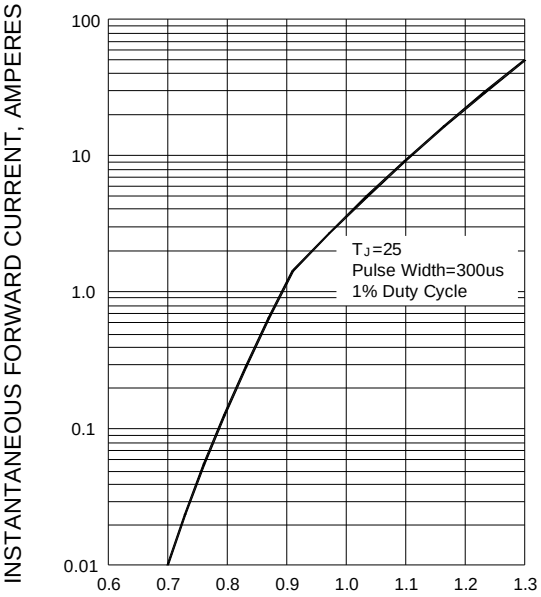
F1G.1-FORWARD CURRENT DERATING CURVE



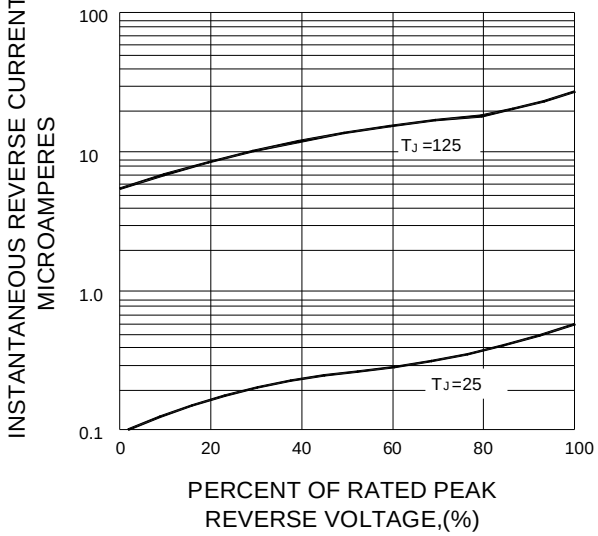
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



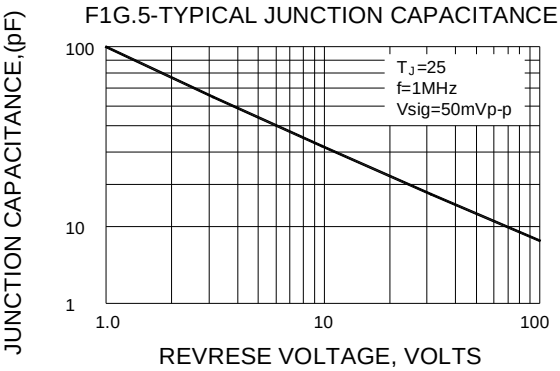
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

