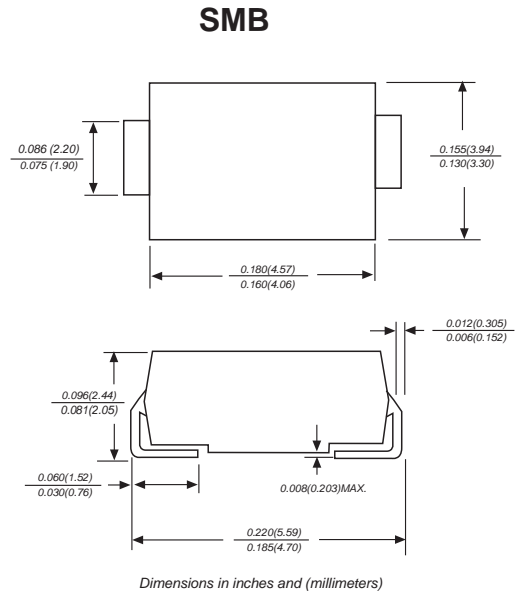


## FEATURES

- For surface mounted applications
- Low profile package
- Built-in strain relief ideal for automated placement
- Glass Passivated chip junction
- High temperature soldering guaranteed  
250°C/10 second at terminals

## 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: 0.002ounce, 0.064 gram



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

## MAXIMUM RATINGS & THERMAL CHARACTERISTICS

	SYMBOLS	S2AB	S2BB	S2DB	S2GB	S2JB	S2KB	S2MB	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 $T_L=100^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine wave superimposed on rated load (JEDEC method) $T_L=100^\circ\text{C}$	$I_{FSM}$	50							Amps
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	53							°C/W
	$R_{\theta JL}$	16							
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							°C

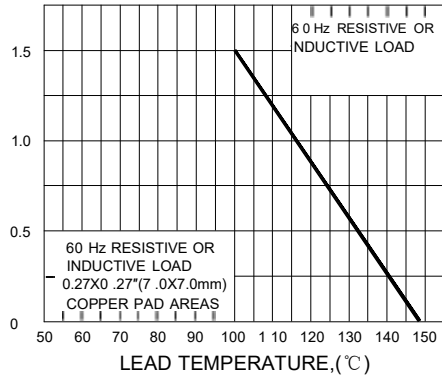
## ELECTRICAL CHARACTERISTICS

	SYMBOLS	S2AB	S2BB	S2DB	S2GB	S2JB	S2KB	S2MB	UNIT	
Maximum Instantaneous Forward Voltage at 1.5A	$V_F$					1.15				Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$I_R$					5.0				μA
						125				
Typical Reverse Recovery Time at $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{RR}=0.25\text{A},$	$T_{rr}$					2.0				μs
Typical junction capacitance at 4.0V, 1MHz	$C_J$					30				pF

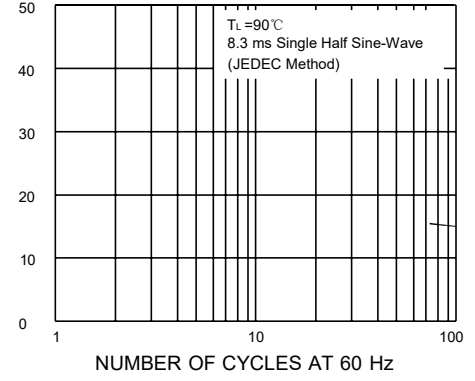
### Notes:

1. 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.

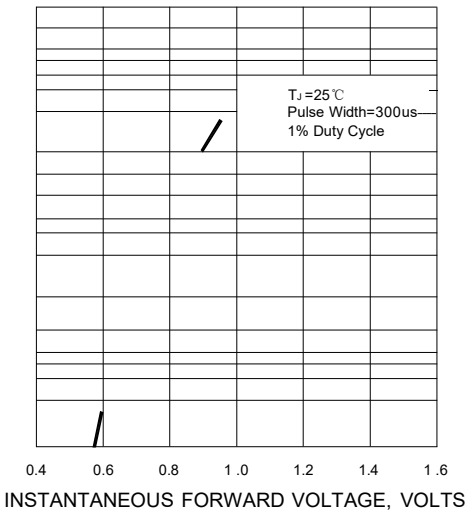
F1G. 1-FORWARD CURRENT DERATING CURVE



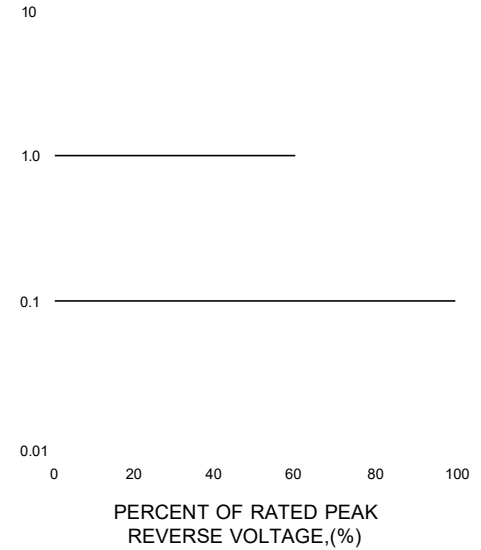
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

