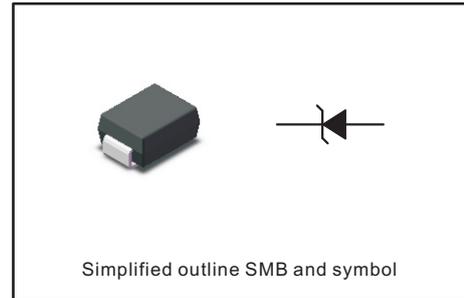


3.0 AMP Surface Mount Passivated Rectifiers
FEATURES

- Glass Passivated Die Construction
- Low forward voltage drop
- High current capability
- High reliability
- Metalsilicon junction, majority carrier conduction
- Plastic Case Material has UL Flammability Classification Rating 94V-0

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode


MECHANICAL DATA

- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Type Number	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ $T_L = 90^\circ C$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100							A
Forward Voltage @ $I_F = 3.0A$	V_{FM}	1.0							V
Peak Reverse Current @ $T_A = 25^\circ C$	I_R	5.0							uA
At Rated DC Blocking Voltage @ $T_A = 125^\circ C$		100							
I^2t Rating for fusing ($t < 8.3ms$)	I^2t	41.5							A^2s
Typical Junction Capacitance (Note 1)	C_J	22							pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	100							C/W
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

Fig. 1 Forward Current Derating Curve

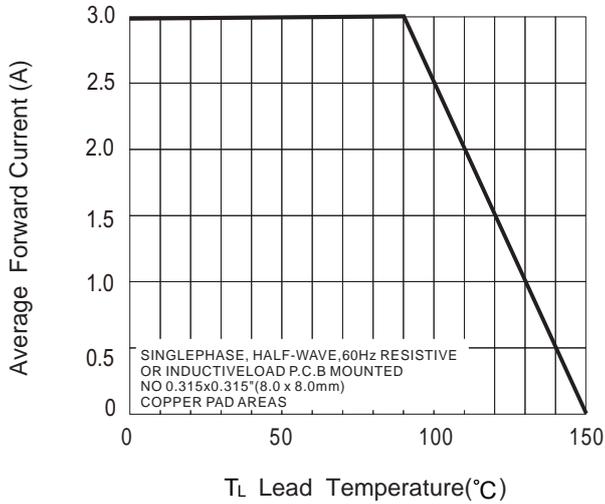


Fig. 2 Typ. Forward Characteristics

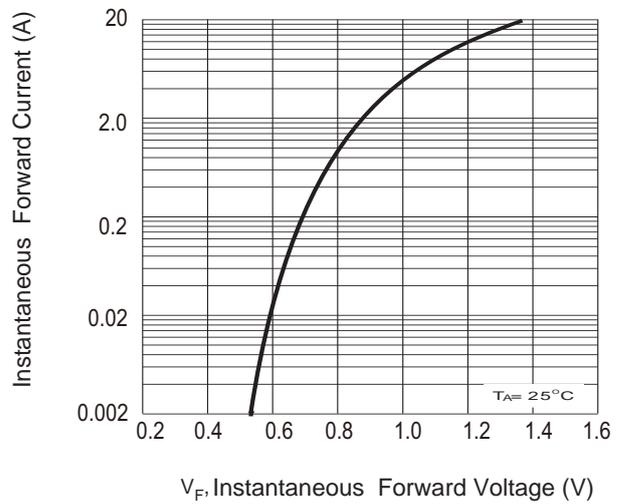


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

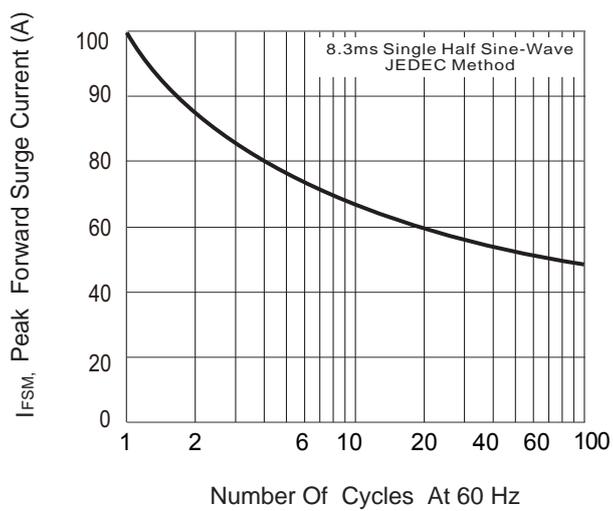


Fig.4 Typical Reverse Characteristics

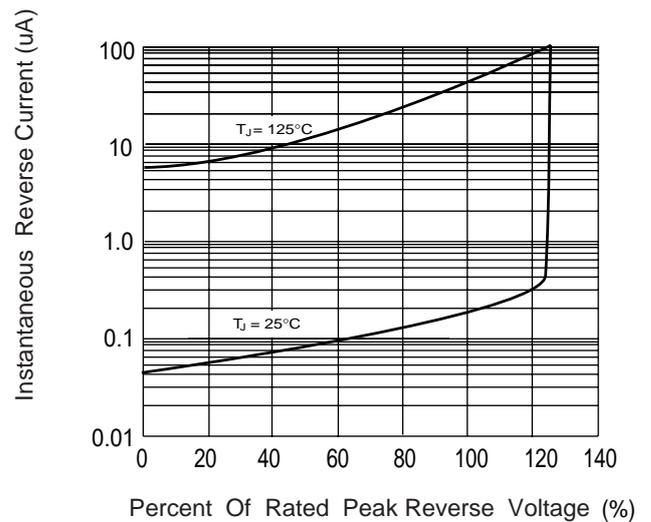
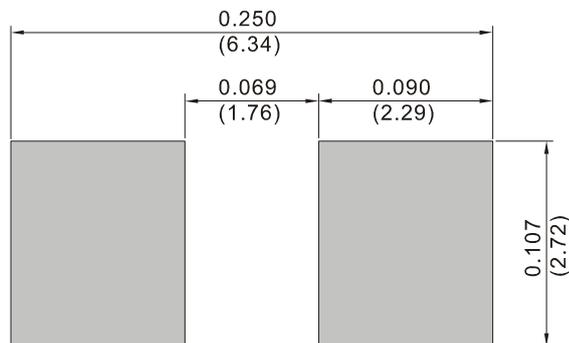
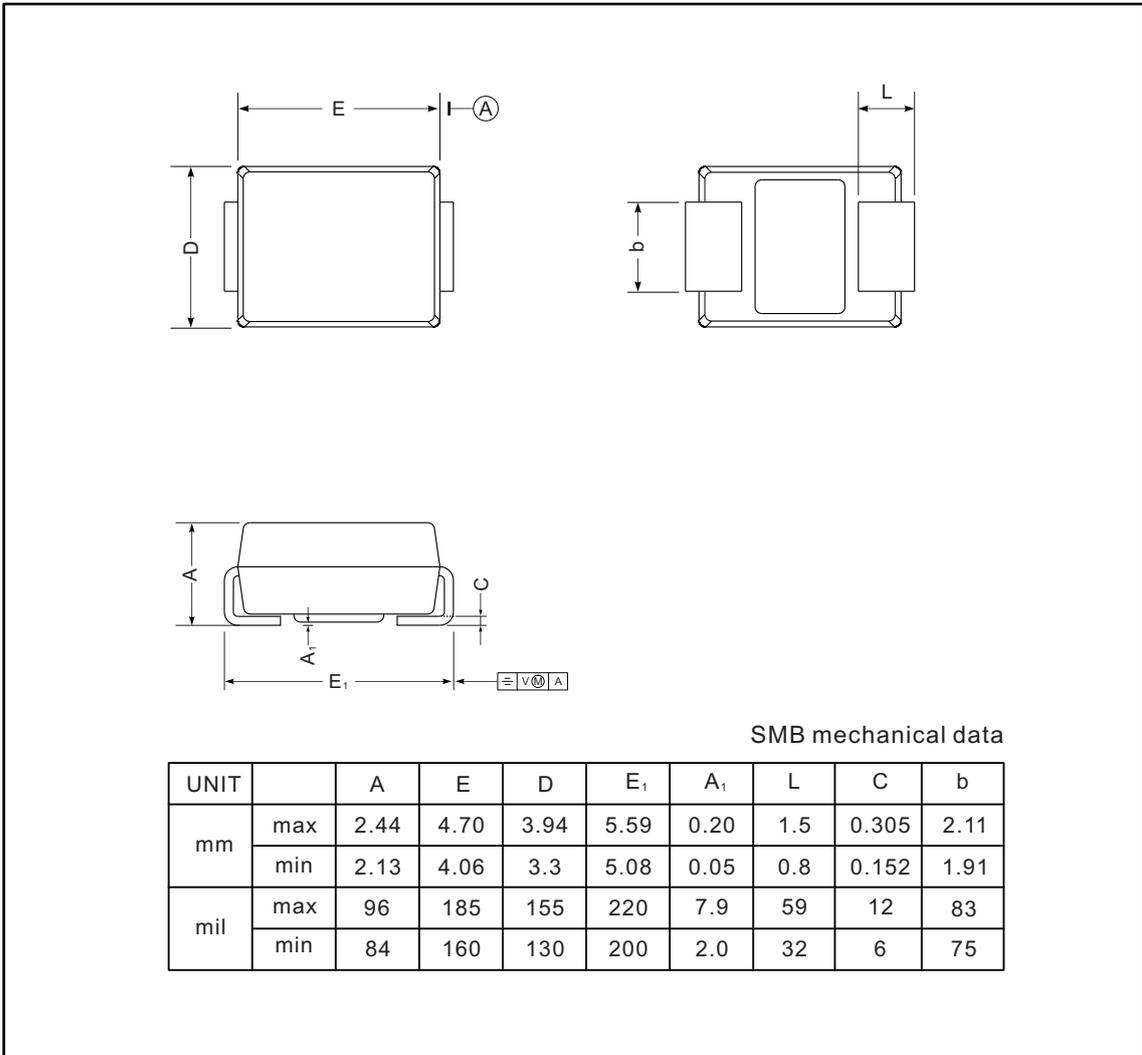


Fig.5 Mounting PAD Layout



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size

