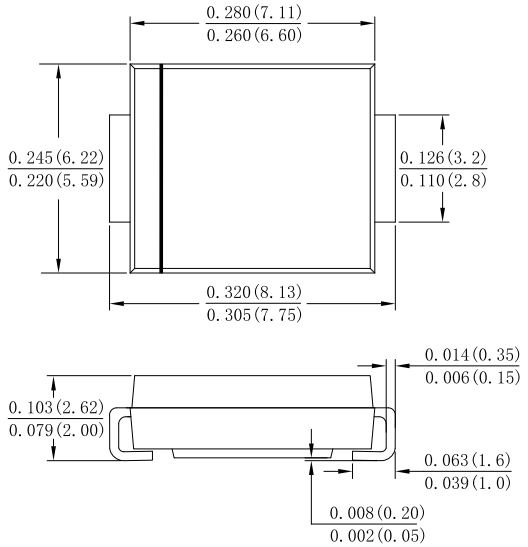
MURS320 THRU MURS360

3.0 AMP Surface Mount Glass Ultra Fast Rectifier

Features

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

Case: SMC(DO-214AB)



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic SMC
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: as marked on case
- Mounting Position: Any
- Making: Type Number

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	Symbols	MURS320	MURS340	MURS360	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Average Rectified Output Current @T_L=100℃	$IF_{(AV)}$	3.0			A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	110			A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	50.215			A^2S
Forward Voltage @IF=3.0A	V_F	0.95	1.30		V
Peak Reverse Current @T_A=25℃	I_R	5.0			uA
At Rated DC Blocking Volta @T_A=100℃		50			
Maximum reverse recovery time (Note 1)	T_{RR}	35	50		ns
Typical Junction Capacitance (Note 2)	C_J	25			pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	85			℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150			℃

Note:

1. Reverse Recovery Test Conditions: I_F=0.5A, I_R =1.0A, I_{RR} =0.25A.
2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

Fig. 1 Forward Current Derating Curve

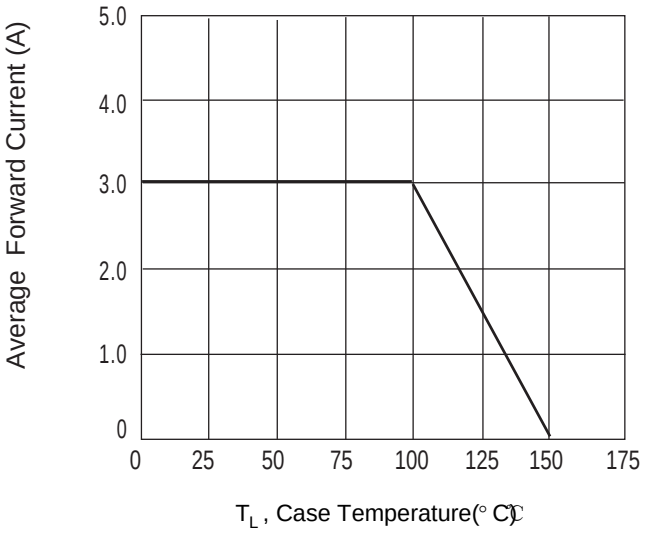


Fig. 2 Typ. Forward Characteristics

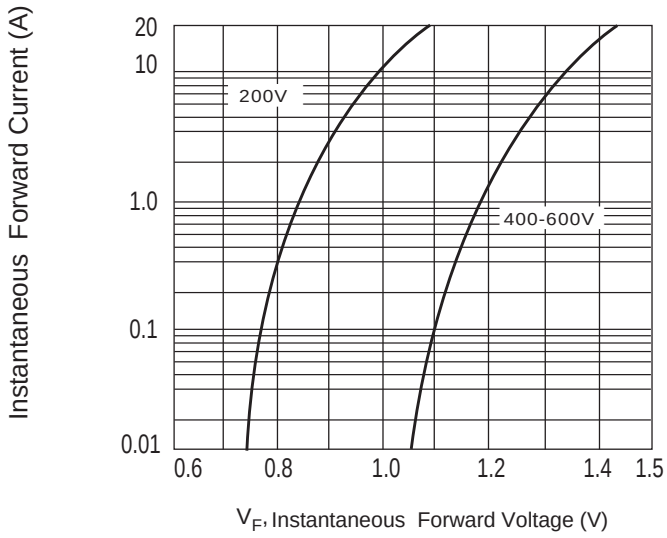


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

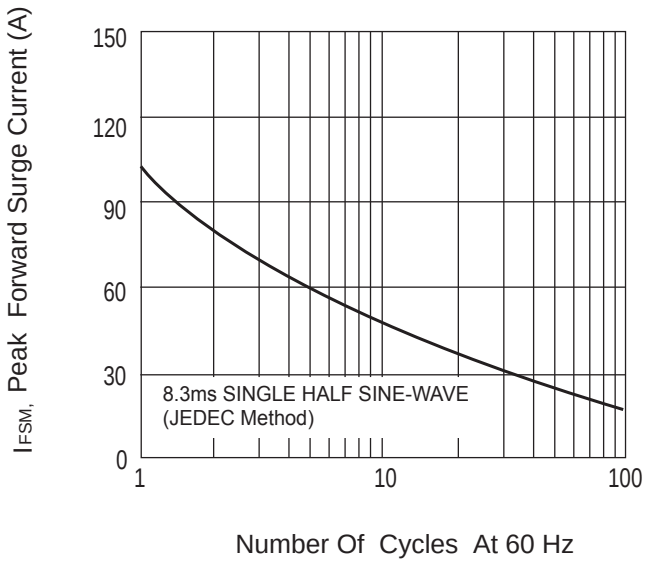


Fig.4 Typical Reverse Chracteristics

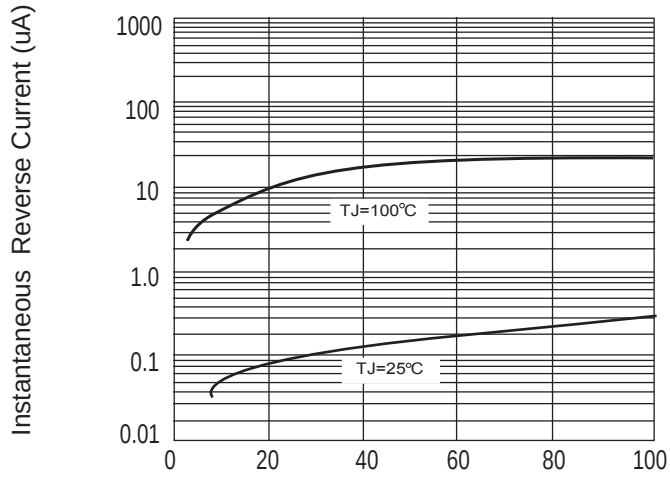
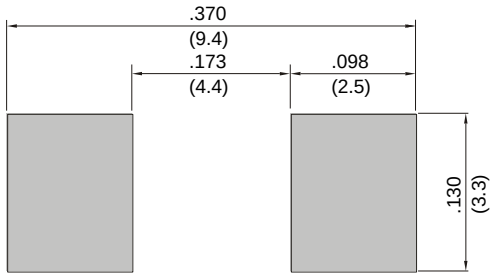


Fig.5 Mounting PAD Layout



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