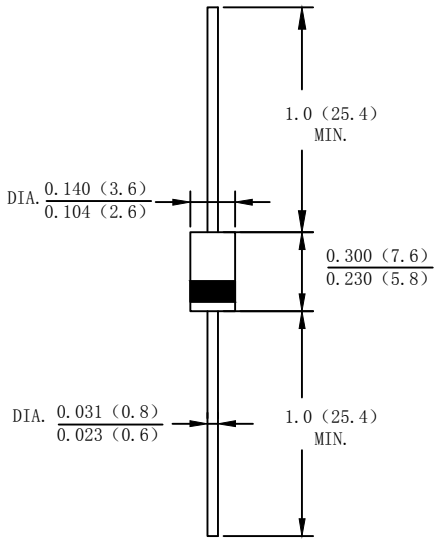
MUR240G

2.0 AMP Ultrafast Glass Passivated Rectifiers

Features

- Ultrafast 50 Nanosecond Recovery Times
- 150°C Operating Junction Temperature
- Low Forward Voltage
- Low Leakage Current
- High Temperature Glass Passivated Junction sivated Junction
- High temperature soldering : 260°C / 10 seconds at terminals

DO-15



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Molded plastic DO-15
- Terminals: Plated leads solderable per MIL-STD-202,Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For RoHS/Lead Free Version

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	SYMBOL	MUR240G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Average Rectified Output Current (Note 1) @T_A =85℃	I_O	2.0	A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60	A
Forward Voltage @IF=2.0A ,T_A =25℃	V_{FM}	1.3	V
Peak Reverse Current @T_A =25℃	I_R	5.0	uA
At Rated DC Blocking Voltage @T_A =100℃		100	
Maximum Reverse Recovery Time (Note2)	T_{RR}	50	nS
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	50	℃/W
Operating Temperature Range	T_J	-55 to + 150	℃
Storage Temperature Range	T_{STG}	-55 to + 150	℃

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A.

FIG. 1 – FORWARD CURRENT DERATING CURVE

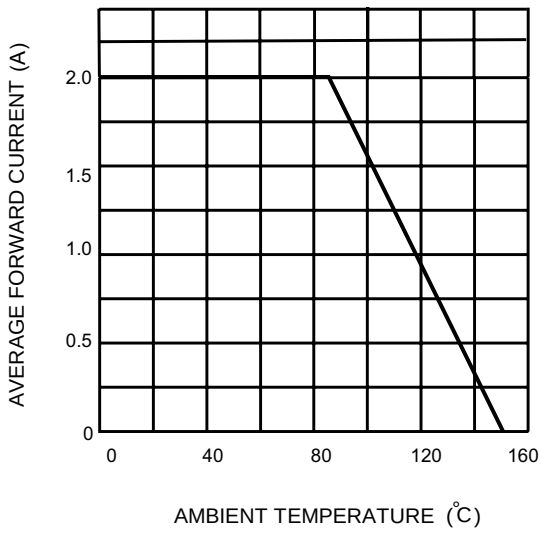


FIG.2-TYPICAL FORWARD CHARACTERISTICS

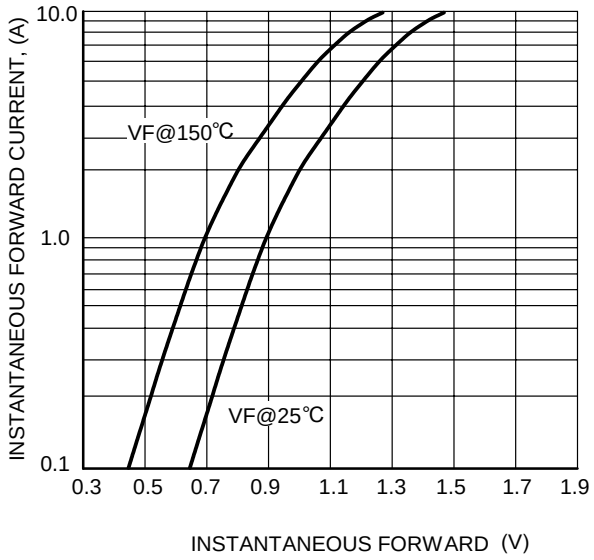


FIG. 3 – MAXIMUM NON-REPEȚITIVE SURGE CURRENT

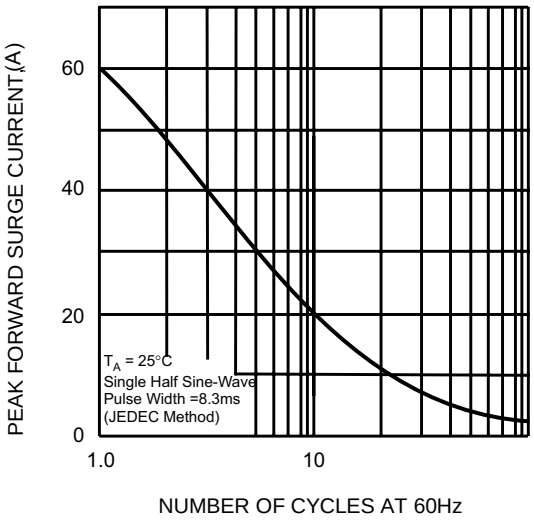
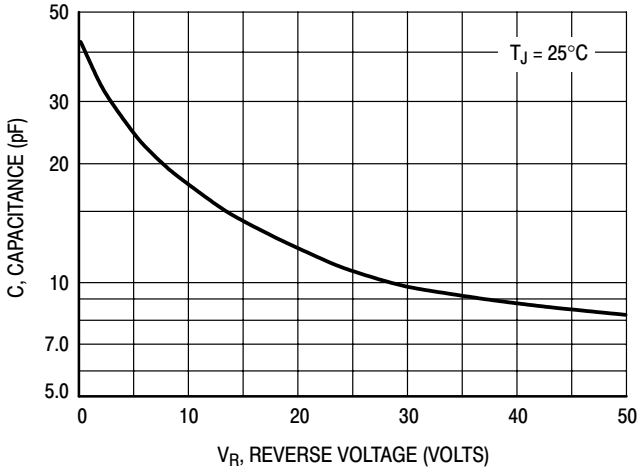



FIG.4 – TYPICAL JUNCTION CAPACITANCE