

Pb Free Plating Product

MUR420G thru MUR4100E



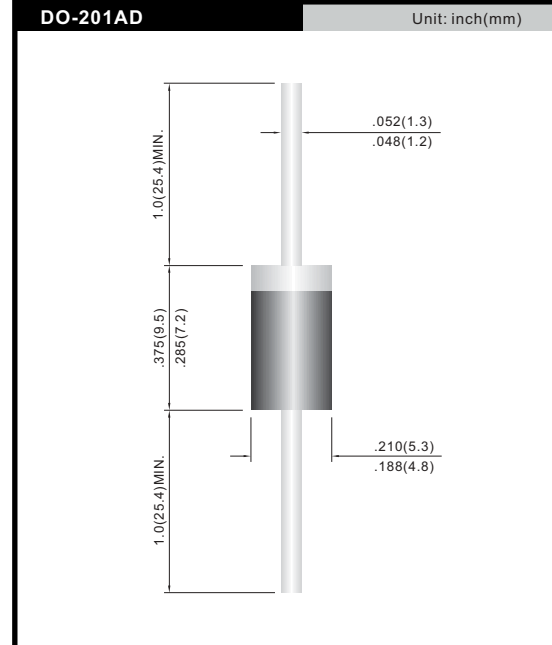
4.0 Ampere SwitchMode Type Ultra Fast Recovery Rectifiers

Features

- High efficiency, low VF
- High current capability
- GPP as-cut wafer for high IFSM
- High surge current capability
- Low power loss.
- For use in low voltage, high frequency inverter, free wheeling, and polarity protection application

Mechanical Data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10 seconds/.375", (9.5mm) lead lengths at 5 lbs., (2.3kg) tension
- Mounting position: Any
- Weight: 1.2 gram approximately



Type Number	SYMBOL	MUR420G	MUR430G	MUR440G	MUR460G	MUR480E	MUR4100E	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RM}	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) lead length@ $T_A = 75^\circ C$	I_o	4.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125						A
Forward Voltage @ $I_F=4.0A$	V_{FM}	1.35				1.7		V
Peak Reverse Current @ $T_J = 25^\circ C$	I_R	5.0						uA
At Rated DC Blocking Voltage @ $T_J = 100^\circ C$		100						
Typical Junction Capacitance (Note 2)	C_j	95						pF
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$	15						$^\circ C/W$
Maximum Reverse Recovery Time(Note 3)	T_{rr}	50				75		ns
Operating Temperature Range	T_J	-55 to +150						$^\circ C$
/Storage Temperature Range	T_{STG}	-55 to +150						$^\circ C$

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
 3.Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

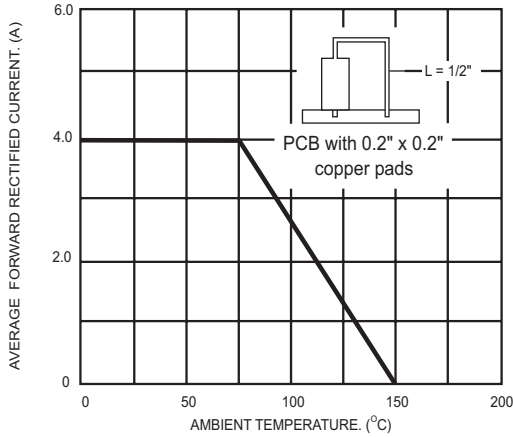


FIG.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

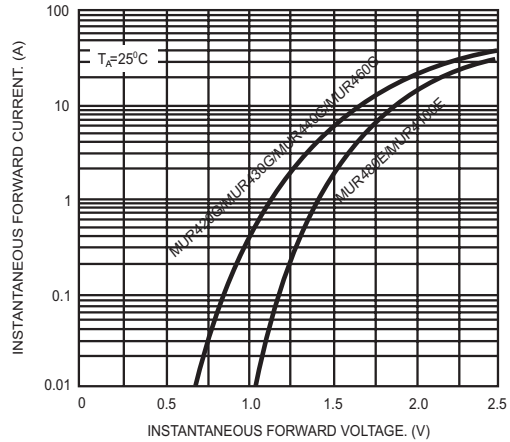


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

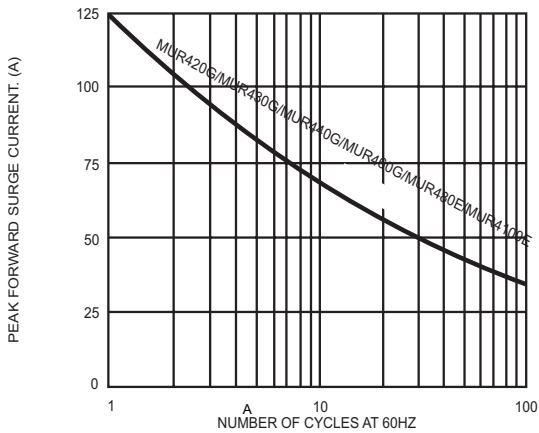


FIG.4- TYPICAL REVERSE CHARACTERISTICS

