

SUPERFAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 600 VOLTS CURRENT - 10 AMPERES

➔ FEATURES

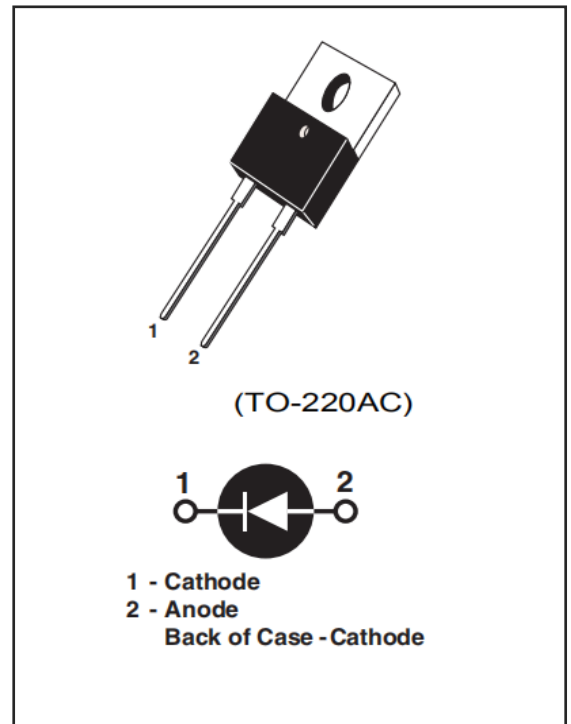
- Low forward voltage drop
- High Current Capability
- High reliability
- High surge Current Capability
- Good for switching mode application
- High temperature soldering : 260°C/10seconds at terminals
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

➔ MECHANICAL DATA

Epoxy : UL 94V-0 rate flame retardant
 Lead : Lead solderable per MIL-STD-202, Method 208 guaranteed
 Polarity : As Marked
 Mounting Position : Any

➔ PRODUCT APPLICATIONS

- Anti-Parallel Diode
 - Switchmode Power Supply
 - Inverters
- Free Wheeling Diode
 - Motor Controllers
 - Converters
 - Inverters
- Snubber Diode
- PFC



➔ MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified
 Single phase, half wave, 60Hz, resistive or inductive load
 For capacitive load, derate current by 20%

PARAMETER	MUR 1005G	MUR 1010G	MUR 1015G	MUR 1020 G	MUR 1030G	MUR 1040G	MUR 1060G	UNITS
Maximum Repetitive Peak Reverse Voltage	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage	35	70	105	140	210	320	420	Volts
Maximum DC Blocking Voltage	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current .375" (9.5mm) Lead Length at Tc=100°C	10							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	125							Amps
Maximum Instantaneous Forward Voltage at 5.0A	0.95			1.25		1.55		Volts
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C				10 400				μ A
Typical Junction Capacitance (Note 1)	62							pF
Maximum Reverse Recovery Time (Note 2)	35				35			nS
Typical Thermal Resistance Note RθJC	3.0							°C / W
Operating and Storage Temperature Range Tj	-55 to +150							°C

NOTES :

1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

SUPERFAST RECOVERY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MUR1005G THRU MUR1060G

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

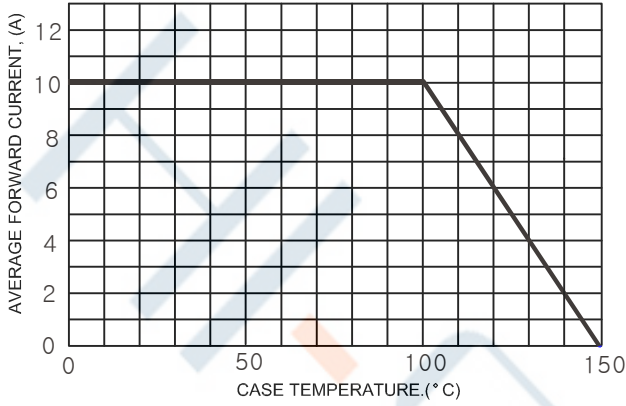


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

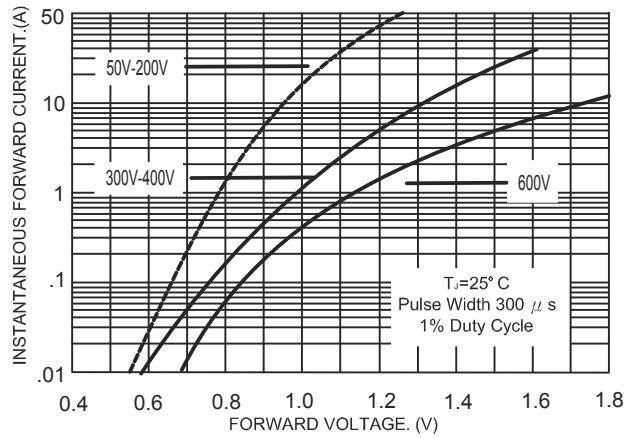


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

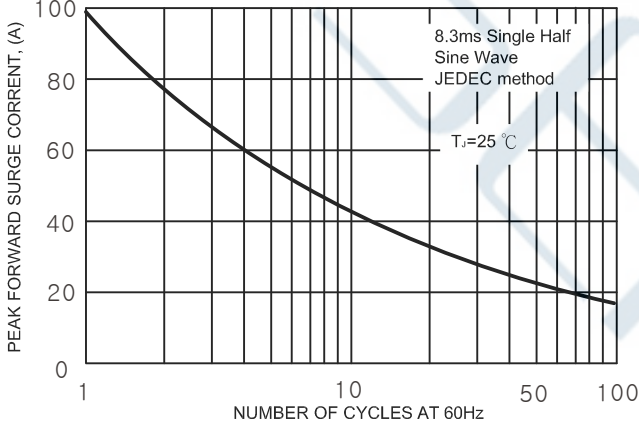


FIG.4 - TYPICAL JUNCTION CAPACITANCE

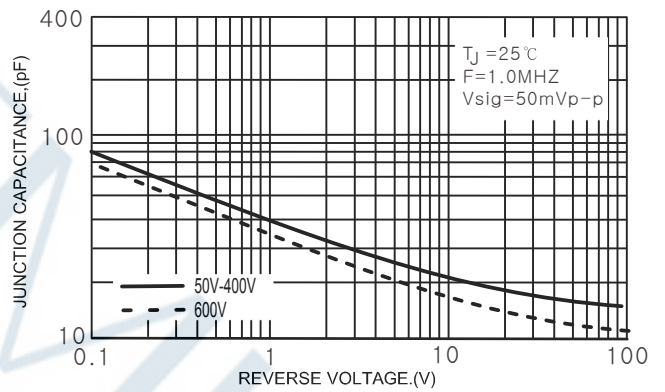


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

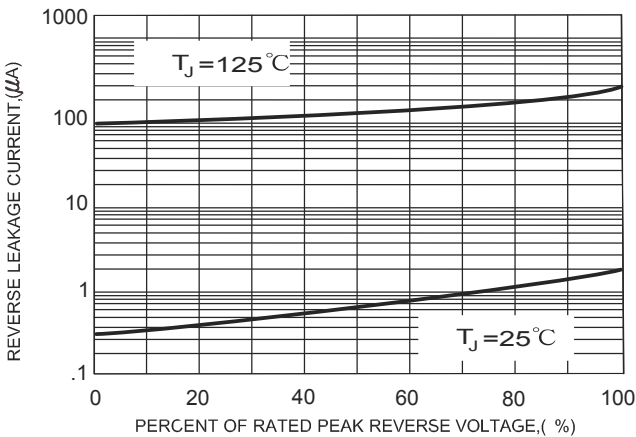
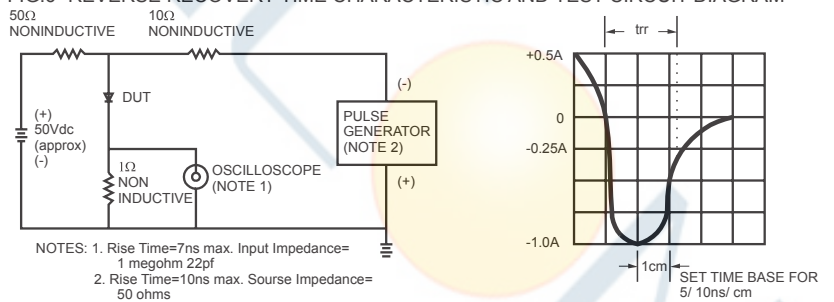


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



SUPERFAST RECOVERY RECTIFIER

TO-220AC PACKAGE OUTLINE DIMENSIONS

