PINGWEI ENTERPRISE

MUR860

8.0AMPS. Glass Passivated Super Fast Recitifiers

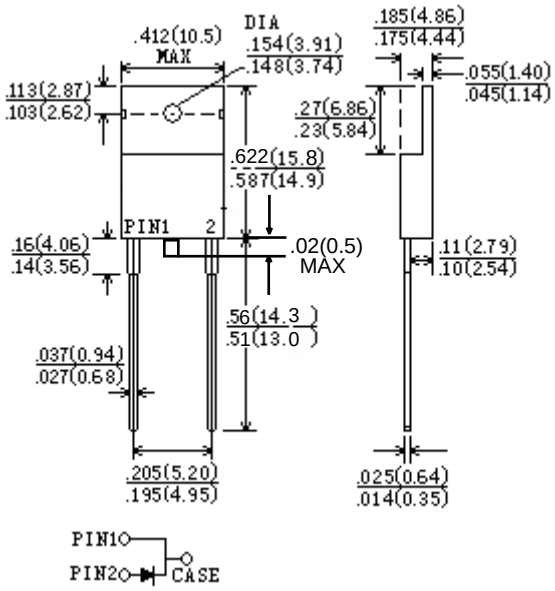
FEATURE

Low forward voltage drop;
High current capability;
High reliability;
High surge current capability;
Epitaxial construction.

MECHANICAL DATA

Lead: Lead solderable per MIL-STD-202,
method 208 guranteed.
Case: Molded with UL-94 Class V-0 recognized
Flame Retardant Epoxy
Polarity: As Marked
Mounting position:Any

TO-220A



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

Type Number	SYMBOL	MUR860	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current at T_L =100°C	$I_{F(AV)}$	8.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120.0	A
Maximum Forward Voltage at 8.0A DC	V_F	1.7	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I_R	10.0 400.0	μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	75	ns
Typical Junction Capacitance (Note 2)	C_J	50	pF
Typical Thermal Resistance (Note 3)	$R_{(ja)}$	3.0	°C /W
Storage and Operating Junction Temperature	T_{STG} T_J	-55 to +150	°C

Notes:

1.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 4.0Vdc

3. Thermal Resistance from Junction to Case Mounted on Heatsink.

RATING AND CHARACTERISTICS CURVES (MUR860)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

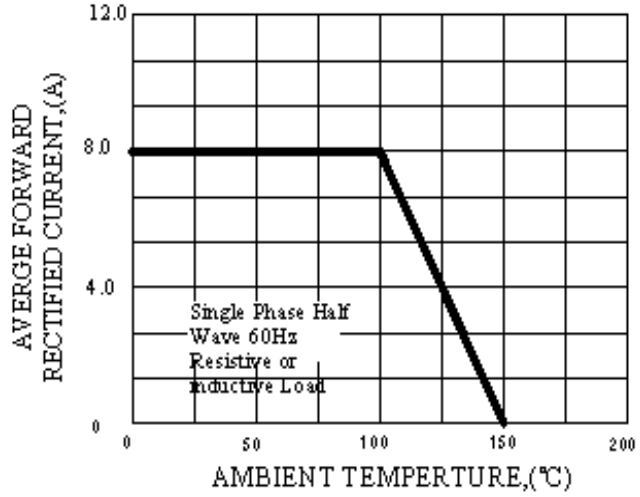


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

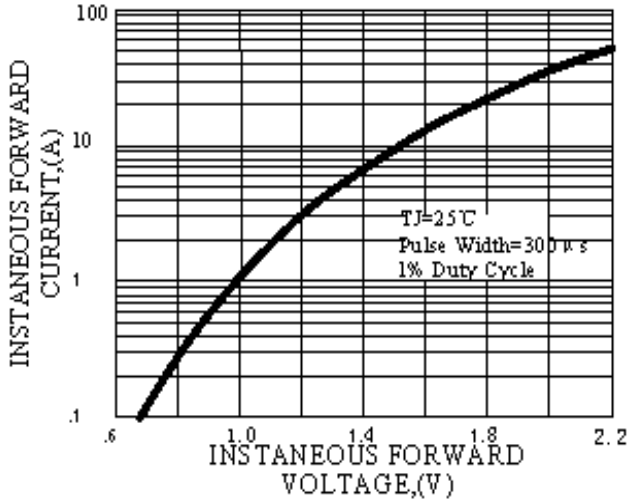


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

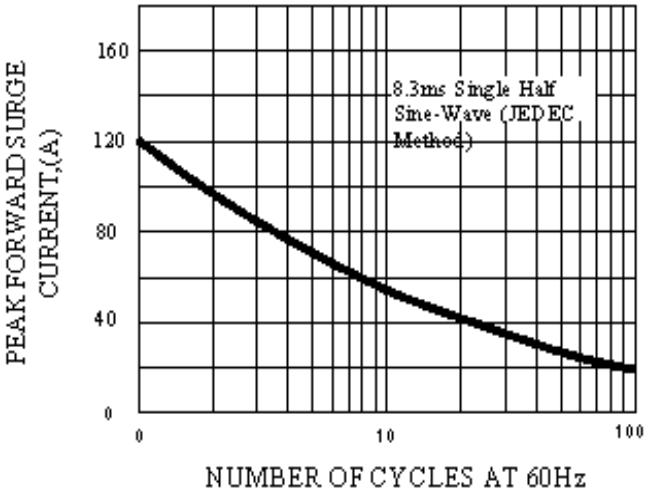


FIG.4-TYPICAL REVERSE CHARACTERISTICS

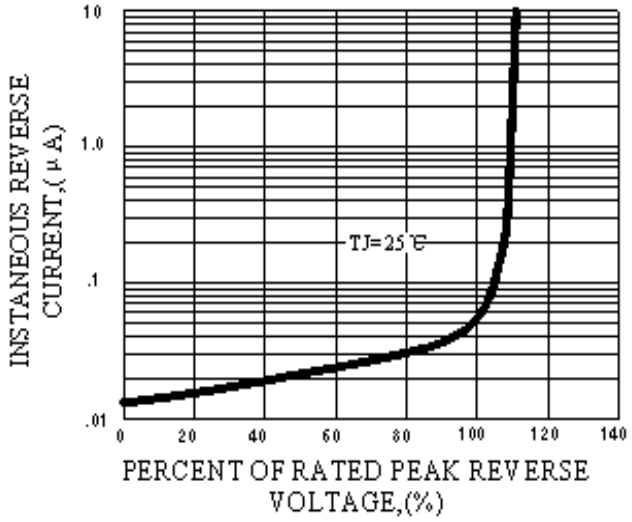
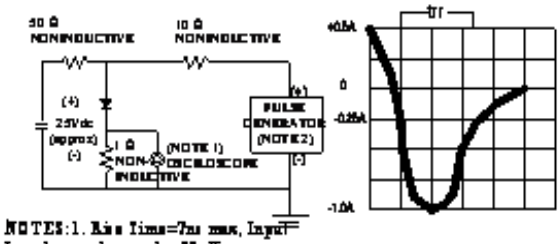


FIG.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



NOTES:1. Rise Time=7ns max, Input Impedance=1 megohm,22pF.
2. Rise Time=10ns max, Source Impedance=50 ohms.