MUR820 THRU MUR860

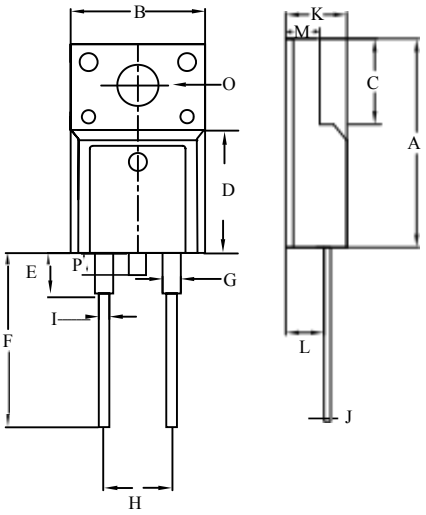
Superfast Recovery Rectifiers

ITO-220AC

FEATURES

RoHS COMPLIANT

- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High forward surge capability
- High temperature soldering ：260℃/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



ITO-220AC		
DIM.	MIN.	MAX.
A	14.90	15.90
B	9.90	10.40
C	6.20	6.95
D	8.50	9.30
E	2.50	3.50
F	12.8	– –
G	1.15	1.5
H	4.90	5.20
I	0.45	0.95
J	0.40	0.65
K	4.35	4.80
L	2.45	2.85
M	2.50	3.15
O	ϕ3.00	ϕ3.50
P	0.00	1.50
All Dimensions in millimeter		

Mechanical Data

- **Case** ITO-220AC
- **Terminals** : Solder plated, solderable per MIL-STD-750,Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACT

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase half wave 60Hz resistive or inductive load For capacitive load derate current by 20%

CHARACTERISTICS	Symbols	MUR820	MUR840	MUR860	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS Bridge Input Voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current	$I_{(AV)}$	8.0			A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	160			A
Maximum Forward Voltage at 8A	V_F	1.0	1.3	1.7	V
Maximum DC Reverse Current T_A=25℃	I_R	10			μA
at Rated DC Blocking Voltage T_A=125℃		500			
Maximum Reverse Recovery Time (Note1)	TRR	35			ns
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	4			℃/W
Operating Temperature Range	T_J	-55 to +150			℃
Storage Temperature Range	T_{STG}	-55 to +150			℃

NOTES：1.Measured with I_F = 0.5 A, I_R = 1 A, I_{rr}= 0.25 A

2 .Thermal resistance junction to case

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

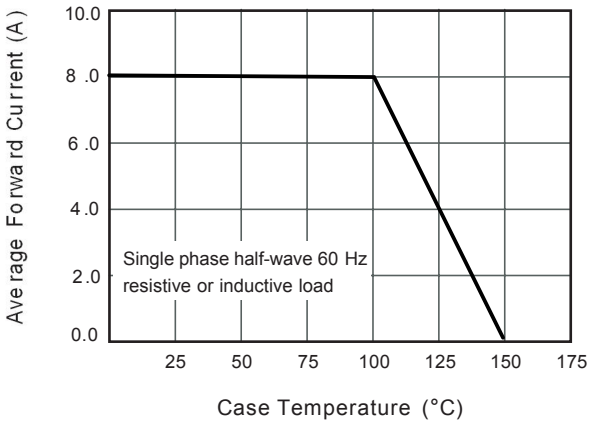


Fig.2 Typical Reverse Characteristics

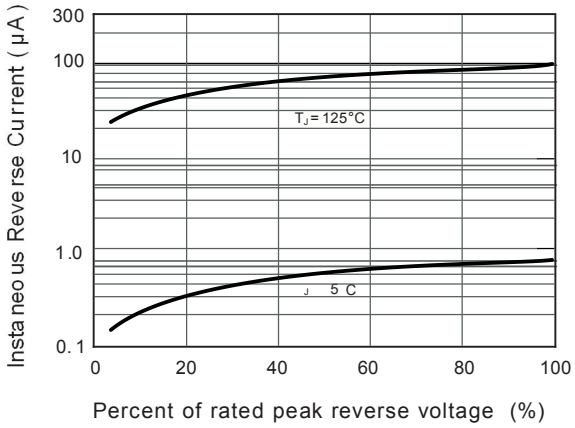


Fig.3 Typical Forward Characteristics

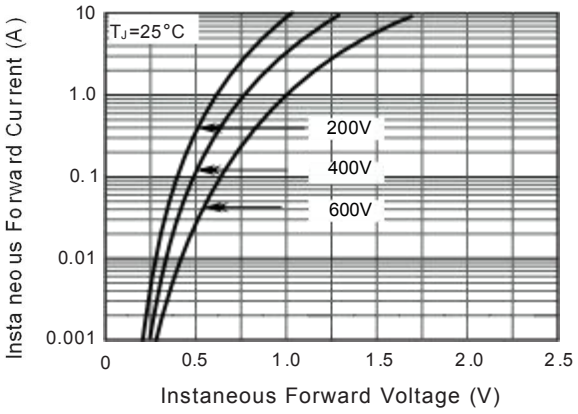


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

