



MURD1660DDFCT

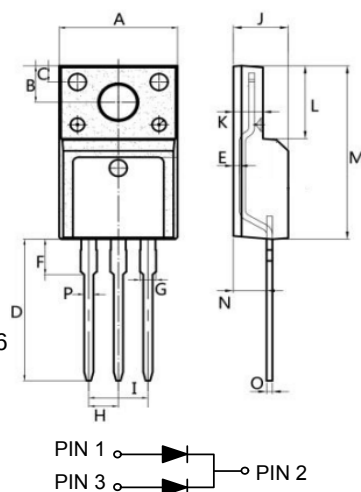
Superfast Recovery Rectifiers

FEATURES

- Low profile package
- Fast reverse recovery time
- Easy to pick and place
- Low forward Voltage drop
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



ITO-220AB



Dim.	Min.	Max.
A	9.95	10.25
B	2.95	3.25
C	1.25	1.45
D	12.95	13.25
E	0.50	0.65
F	2.80	3.30
G	1.30	1.45
H	Typ2.54	
I	Typ5.08	
J	4.50	4.75
K	2.50	2.65
L	6.35	6.55
M	15.40	16.00
N	2.75	3.05
O	0.48	0.52
P	0.76	0.84

All Dimensions in millimeters

Mechanical Data

- **Case** : TO-252
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

CHARACTERISTICS	TO-252	MURD1660DDFCT	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Bridge Input Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current (Total)	I <sub(av)< sub=""></sub(av)<>	16	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100	A
Maximum Forward Voltage at 8A	V _F	1.6	V
Maximum DC Reverse Current T _A =25°C	I _R	1.0	μA
at Rated DC Blocking Voltage T _A =125°C		100	μA
Maximum Reverse Recovery Time (Note1)	TRR	35	ns
Typical Thermal Resistance	R _{θJC}	4	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

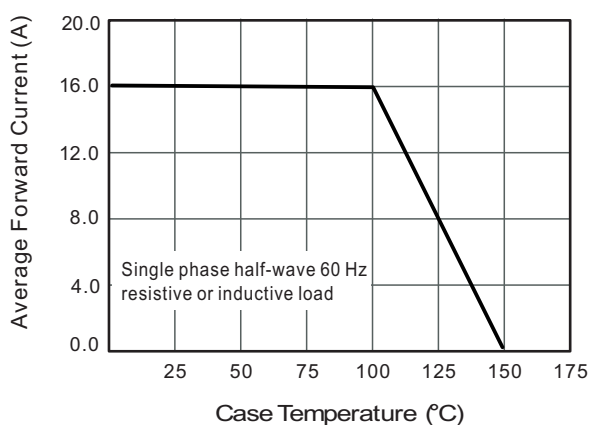


Fig.2 Typical Reverse Characteristics

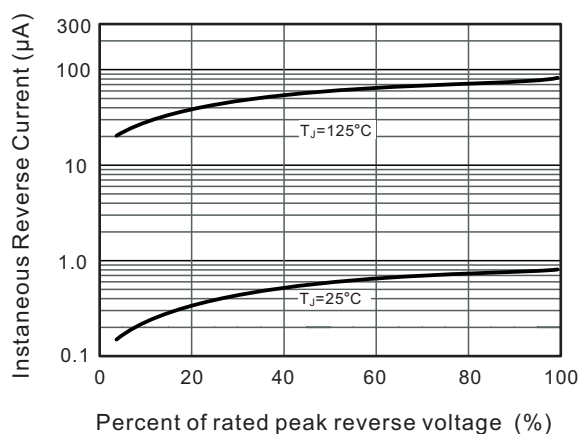


Fig.3 Typical Forward Characteristics

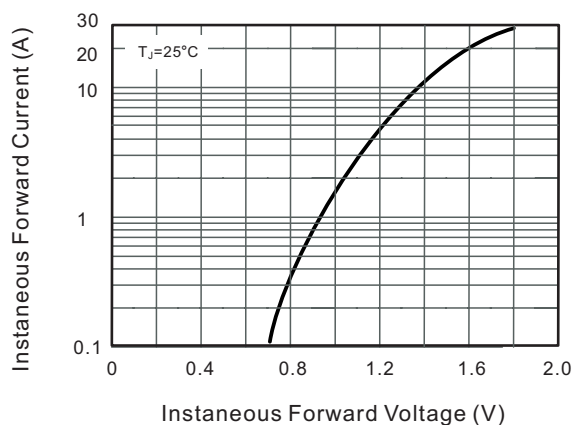


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

