MUR2060

Superfast Recovery Rectifiers

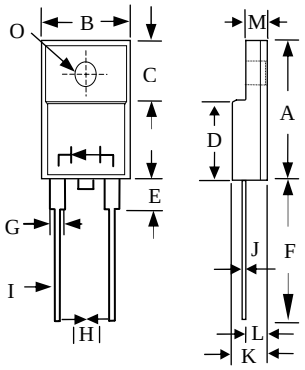
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability.
- High surge capability
- Ultra fast recovery time,high voltage.
- Lead free in comply with EU RoHS.

MECHANICAL DATA

- Case: ITO-220AC molded plastic
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Mounting Position: Any

ITO-220AC



ITO-220AC		
DIM.	MIN.	MAX.
A	14.90	15.90
B	9.90	10.40
C	6.45	6.95
D	8.05	8.85
E	2.90	3.90
F	12.8	——
G	1.10	1.4
H	4.95	5.05
I	0.45	0.95
J	0.40	0.65
K	4.35	4.80
L	2.45	2.85
M	2.50	2.85
O	∅3.00	∅3.50
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	MUR2060	UNIT
Device marking code	Note	MUR2060	---
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Rectified Output Current See Fig.1	I_F	20	A
Peak Forward Surge Current 8.3ms single half sine-wave	I_{FSM}	190	A
Storage temperature range	T_{STG}	-55 to +150	°C
Operating junction temperature range	T_J	-55 to +150	°C

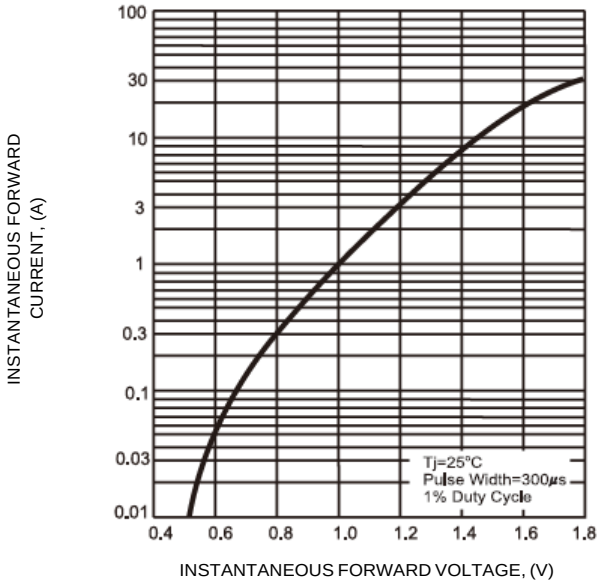
PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Typ.	Max.	UNIT
Breakdown voltage	IR=50uA	Tj=25°C	V_B	600	---	---	V
Forward Voltage	IF=20A	Tj=25°C	V_F	---	1.60	1.75	V
Leakage Current	VR=600V	Tj=25°C Tj=125°C	I_R	--- ---	---- ----	50 500	uA
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	t_{rr}	---	27	35	ns

THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical thermal resistance_Junction to Case	$R_{\Theta JC}$	4.5	°C/W
Typical thermal resistance_Junction to Lead	$R_{\Theta JL}$	5.5	°C/W
Junction Capaitance（Note 1）	Cj	120	pF

NOTES:
1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.
3. Thermal resistance from Junction to case.

RATING AND CHARACTERISTIC CURVES

TYPICAL FORWORD CHARACTERISTICS



TYPICAL REVERSE CHARACTERISTICS

