

MUR1610CT THRU MUR1660CT

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
Flame Retardant Epoxy Molding Compound
- Low power loss, high efficiency
- High surge capability
- Ultra fast recovery time, high voltage
- In compliance with EU RoHS

Mechanical Data

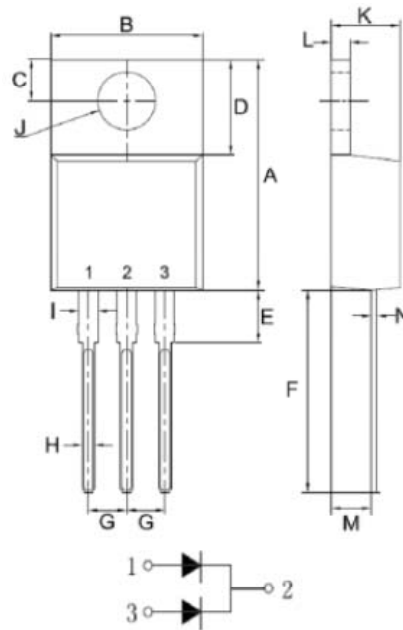
Case: TO-220AB molded plastic

Terminals: Plated Leads Solder able per MIL-STD-750, Method 2026

Polarity: As marked

Mounting Position: Any

TO-220AB



TO-220AB		
Unit:mm		
DIM	MIN	MAX
A	14.80	15.80
B	9.57	10.57
C	2.54	2.94
D	5.80	6.80
E	2.95	3.95
F	12.70	13.40
G	2.34	2.74
H	0.51	1.11
I	0.97	1.57
J	3.54 ϕ	4.14 ϕ
K	4.27	4.87
L	1.07	1.47
M	2.03	2.92
N	0.30	0.64

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	MUR	MUR	MUR	MUR	MUR	MUR	UNITS
		1610CT	1620CT	1630CT	1640CT	1650CT	1660CT	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	300	400	500	600	V
Maximum RMS Voltage	V_{RMS}	70	140	210	280	350	420	V
Maximum DC Blocking Voltage	V_{DC}	100	200	300	400	500	600	V
Maximum Average Forward Current at $T_c = 100^\circ C$	$I_{F(AV)}$	16						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JED EC method)	I_{FSM}	100						A
Maximum Forward Voltage at 8.0A	V_F	1.0		1.3		1.7		V
Maximum DC Reverse Current at $T_j = 25^\circ C$	I_R	10						mA
Rated DC Blocking Voltage $T_j = 100^\circ C$		500						
Typical Junction Capacitance (Note 1)	C_j	170				130		pF
Maximum Reverse Recovery Time (Note 2)	T_{rr}	35						nS
Typical Thermal Resistance (Note 3)	R_{QJC}	3.5						$^\circ C/W$
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-55 to +150						$^\circ C$

NOTES:

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

RATINGS AND CHARACTERISTIC CURVES

