

MUR1610CT~MUR1660CT

ULTRAFAST RECOVERY RECTIFIERS

VOLTAGE 100 to 600 Volts

CURRENT 16 Amperes

FEATURES

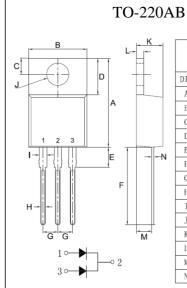
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0.
 Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability.
- High surge capability
- Ultra fast recovery time, high voltage.
- · Lead free in comply with EU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

MECHANICAL DATA

• Case: TO-220AB molded plastic

• Terminals: solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marked.Mounting Position: Any



TO-220AB						
Unit:mm						
DIM	MIN	MAX 15. 80 10. 57 2. 94 6. 80 3. 95 13. 40 2. 74 1. 11 1. 57 4. 14\$\phi\$ 4. 87				
Α	14. 80	15. 80				
В	9. 57	10. 57				
С	2.54	2.94				
D	5.80	6.80				
Е	2.95	3. 95				
F	12.70	13. 40				
G	2.34	2.74				
Н	0.51	1.11				
Ι	0.97	1. 57				
J	3. 54 ø					
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		MUR 1610CT	MUR 1620CT	MUR 1630CT	MUR 1640CT	MUR 1650CT	MUR 1660CT	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	300	400	500	600	V
Maximum RMS Voltage		70	140	210	280	350	420	٧
Maximum DC Blocking Voltage		100	200	300	400	500	600	٧
Maximum Average Forward Current at T _c = 100°C		16						А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		90						А
Maximum Forward Voltage at 8A	V _F	1		1.3		1.7		V
Maximum DC Reverse Current at Rated DC Blocking $T_{_J}$ =25°C /oltage $T_{_J}$ =125°C		10 500					μА	
Typical Junction Capacitance (Note 1)	C J	170 130				3 0	pF	
Maximum Reverse Recovery Time (Note 2)		35						ns
Typical Thermal Resistance (Note 3)		3.5						°C /
Operating Junction and Storage Temperature Range		-55 to +150					°C	

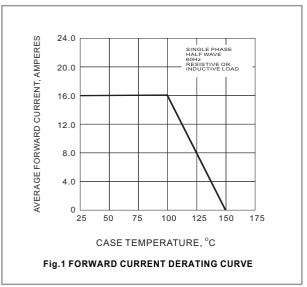
NOTES:

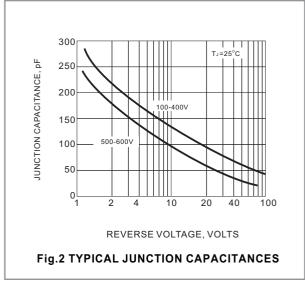
- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =0.5A, I_R =1A, I_R =1A, I_R =0.25A.
- 3. Thermal resistance from Junction to case.

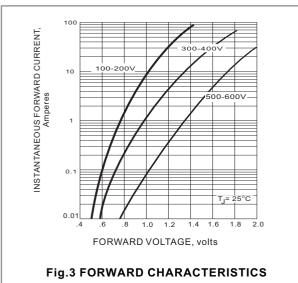


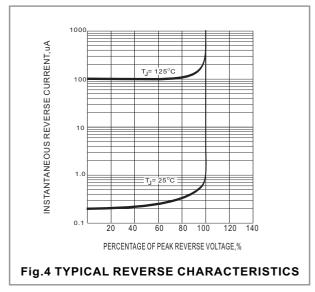
MUR1610CT~MUR1640CT

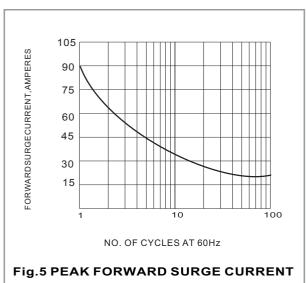
RATING AND CHARACTERISTIC CURVES











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May.2015-REV.00 www.dyelec.com PAGE . 3