DESCRIPTION

The MUR1620CT ~ MUR1660CTare available in TO-220 Package

- Ultra fast 35 and 60 Nanosecond Recovery times
- High temperature glass passivated junction
- High voltage capability to 600 volts

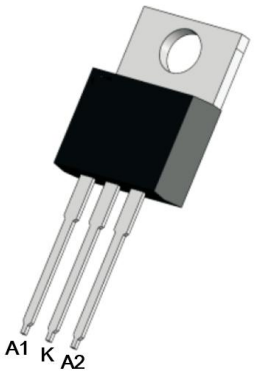
MECHANICAL DATA

- Case: TO-220
- Terminals: Lead Solderable per MIL-STD-202, Method 208
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purpose: 260°C Max. for 10Seconds
- Approx. Weight: 1.9 grams/0.067oz

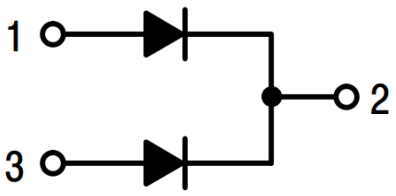
ORDERING INFORMATION

Package Type	Part Number
TO-220F	MUR1620CT
	MUR1640CT
	MUR1660CT
SPQ	50pcs /Tube
AiT provides all RoHS Compliant Products	

PIN DESCRIPTION



PIN	DESCRIPTION
1	A1
2	K
3	A2



ABSOLUTE MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

Parameter	Symbol	MUR1620CTF	MUR1640CTF	MUR1660CTF	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking Voltage	V_{DC}	200	400	600	V
Average Rectified Forward Current per leg Total Device, (Rectified V_R) Tc=150℃ per device	$I_{F(AV)}$	8.0 16			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100			A
Instantaneous Forward Voltage at 8A per leg	V_F	0.975	1.3	1.5	V
Maximum instantaneous reverse Current at rated T_A=25℃ DC blocking voltage T_A=125℃	I_R	5 250	10 500		uA
Maximum Reverse Recovery Time(1)	trr	25	50		ns
Maximum Thermal Resistance Junction To Case	$R_{\theta JC}$	4			°C/W
Operation Junction Temperature and Storage Temperature	T_j,T_{stg}	-65~+175			°C

(1)Reverse recovery test conditions IF=0.5A,IR=1.0A, Irr=0.25A

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

TYPICAL CHARACTERISTICS

Fig 1. TYPICAL FORWARD CURRENT DERATING CURVE

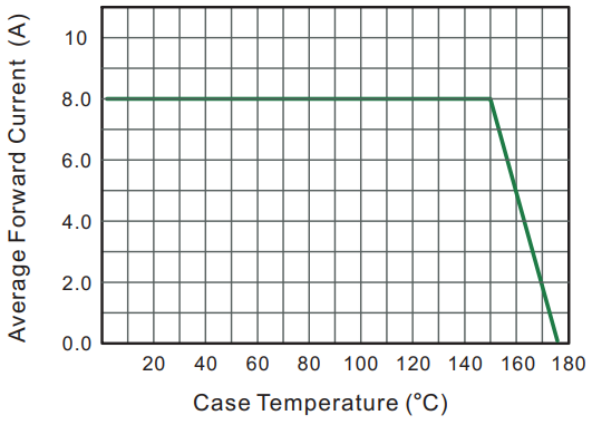


Fig 2. Typical Reverse Characteristics

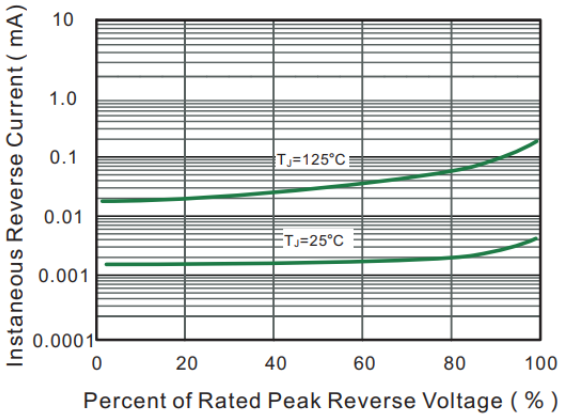


Fig 3. Typical Forward Characteristics PER LEG

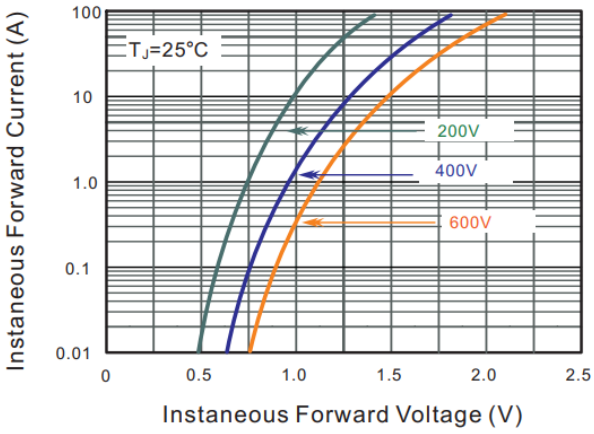
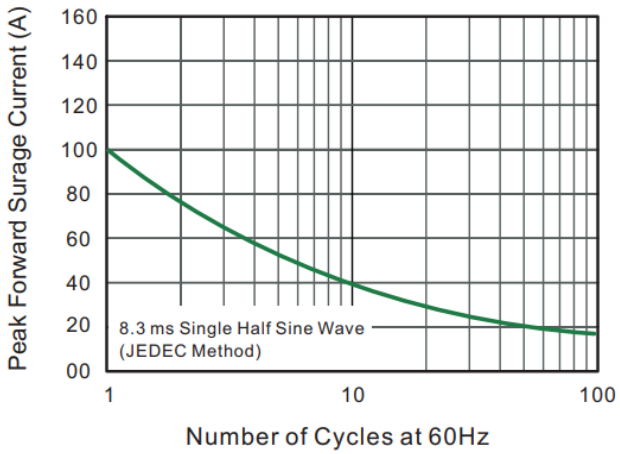
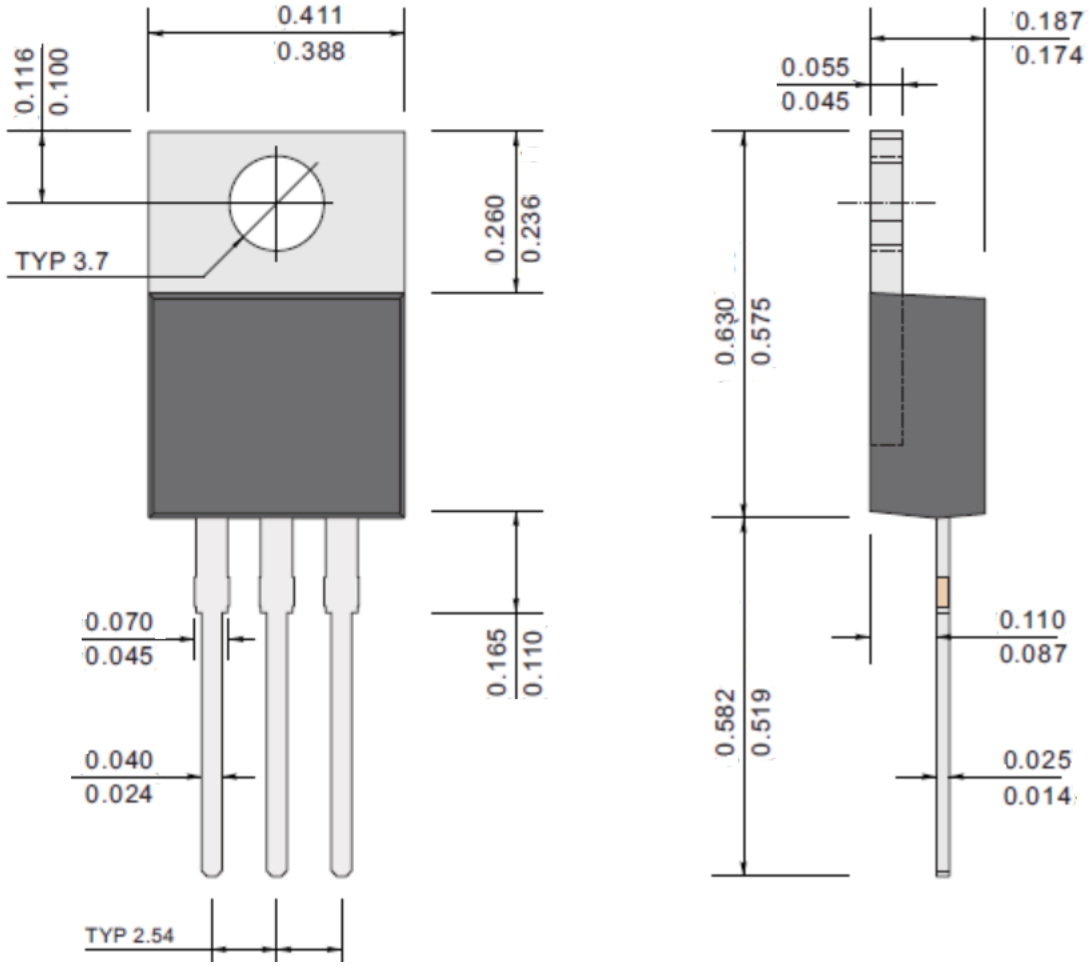


Fig 4. Maximum Non-Repetitive Peak Forward Surge Current



PACKAGE INFORMATION

Dimension in TO-220 (Unit: mm)



IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc. integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or server property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.