

Features

- Lead Free Finish/RoHS Compliant
- Glass Passivated Chip
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- Package: TO-220 Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked

Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1610CT	1615CT	1620CT	1640CT	1660CT
Device marking code			1610CT	1615CT	1620CT	1640CT	1660CT
Repetitive Peak Reverse Voltage	VRRM	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	۱ ₀	А	18				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25°C	IFSM	А	100				
Storage Temperature	T _{stg}	°C	-55 ~ +150				
Junction Temperature	Тј	°C	-55 ~ +150				

Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1610CT	1615CT	1620CT	1640CT	1660CT
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15A	0.975		1.30	1.50	
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1		VRM=VRRM Ta=25℃	5			10	
	IRRM2	uA	VRM=VRRM Ta=125℃	250			500	
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A 25 I _{RR} =0.25A		5	0		



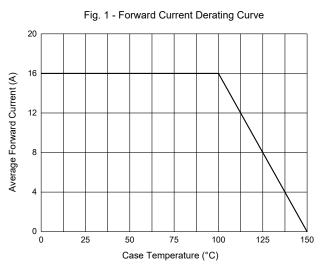


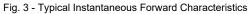
PIN 2	-0	PIN 1
CASE	-0	PIN 3

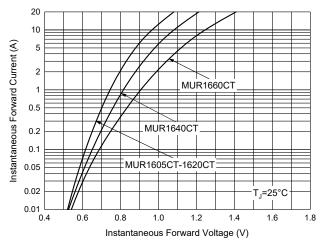


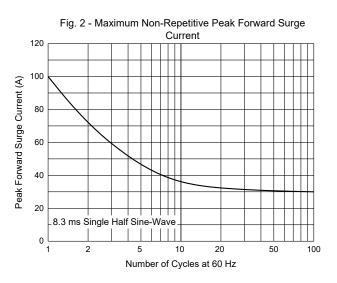
MUR1610-1660CT Ultra-Fast Recovery Rectifier Diodes

Characteristics (Typical)

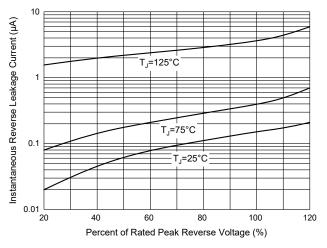






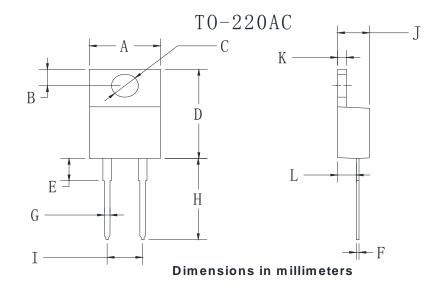








Outline Dimensions



TO-220AC					
Dim	Min	Max			
А	9.5	10.9			
В	2.22	3.27			
С	3.34	4.31			
D	14.5	15.5			
E	3.16	4.46			
F	0.28	0.64			
G	0.68	0.94			
Н	13.06	14.62			
I	4.55	5.60			
J	4.04	5.1			
К	1.14	1.4			
L	2.14	3.19			



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