

- Glass passivated chip
- Super fast switching time for hight efficiency
- Low reverse leakage current
- High surge capacity

Typical Applications

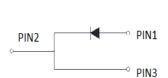
Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

- Package: TO-220AC 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



MUR1510-MUR1560



TO-220AC

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

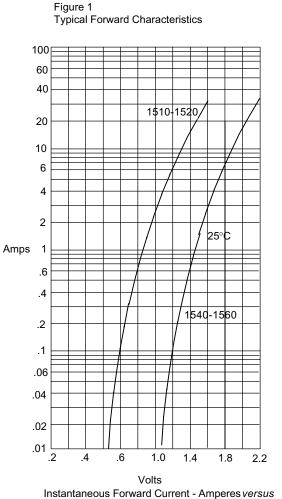
PARAMETER	SYMBOL	UNIT	MUR1510	MUR1515	MUR1520	MUR1540	MUR1560
Device marking code			MUR1510	MUR1515	MUR1520	MUR1540	MUR1560
Repetitive Peak Reverse Voltage	VRRM	V	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	Ι _Ο	А	15				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25℃	IFSM	А	200 150		50		
Storage Temperature	T _{stg}	°C	-55 ~ +150				
Junction Temperature	Tj	°C	-55 ~ +150				

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

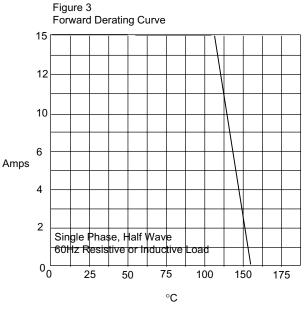
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1510	1515	1520	1540	1560
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=15A	1.05			1.25	1.50
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1		VRM=VRRM Ta=25°C	10				
	IRRM2	uA	VRM=VRRM Ta=125℃	500				1000
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	35			60	



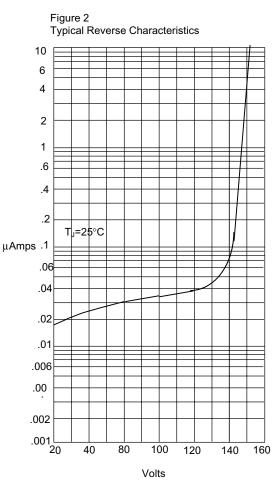
Characteristics (Typical)



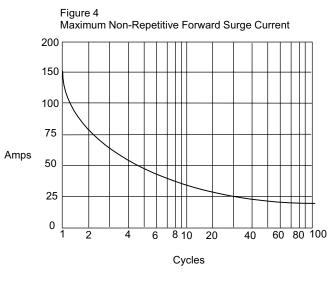
Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperesversus Case Temperature $\ -^\circ C$



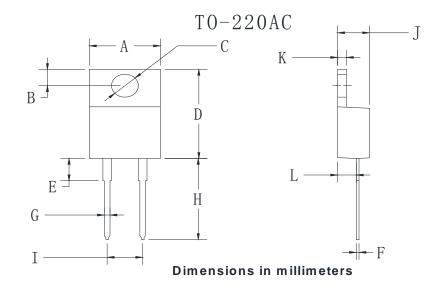
Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts



Peak Forward Surge Current - Amperes/ersus Number Of Cycles At 60Hz - Cycles



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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