

Features

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

Typical Applications

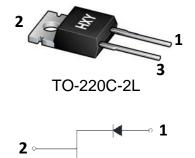
Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical Data

 Package: TO-220C-2L
 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	MUR1510	MUR1515	MUR1520	MUR1540	MUR1560
Device marking code			MUR1510	MUR1515	MUR1520	MUR1540	MUR1560
Repetitive Peak Reverse Voltage	VRRM	٧	100	150	200	400	600
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	Io	Α	15				
Surge(Non-repetitive)Forward Current @60Hz half sine-wave,1 cycle, Ta=25°C	IFSM	А	200 150			50	
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~ + 150				
Junction Temperature	Tj	$^{\circ}$	-55 ~ +150				

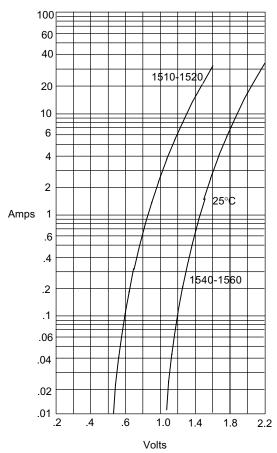
Electrical Characteristics (Ta=25°C Unless otherwise specified)

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 T _a =25℃	10				
	IRRM2	uA	VRM=VRRM T _a =125℃	500				1000
Reverse Recovery Time	Trr	ns	I _F =0.5A I _{RM} =1A I _{RR} =0.25A	35		6	0	



Characteristics (Typical)

Figure 1
Typical Forward Characteristics



Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 3

Forward Derating Curve

15

12

10

Amps

4

2

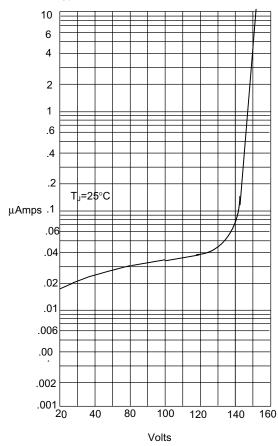
Single Phase, Half Wave
60Hz Resistive or Inductive Load

0
0
25
50
75
100
150
175

Average Forward Rectified Current - Amperesversus Case Temperature -°C

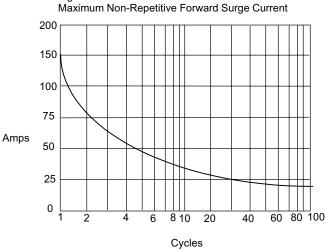
°C

Figure 2
Typical Reverse Characteristics



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

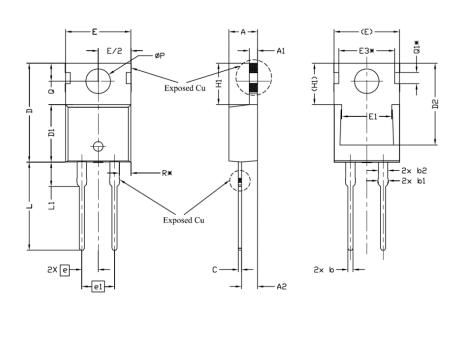
Figure 4



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles



Package Information TO-220C-2L



SYMBOL	DIMENSIONS					
STIMBUL	MIN.	NOM.	MAX.	NOTES		
Α	4,24	4.44	4,64			
A1	1.15	1.27	1.40			
A2	2.30	2.48	2.70			
b	0.70	0.80	0.90			
b1	1.20	1.55	1.75			
b2	1.20	1.45	1.70			
С	0.40	0.50	0.60			
D	14.70	15.37	16.00	4		
D1	8.82	8.92	9.02			
D2	12.43	12.73	12.83	5		
E	9.96	10.16	10.36	4,5		
E1	6.86	7,77	8,89	5		
E3*						
е						
e1						
H1	6.30	6.45	6.60	5,6		
L	13.47	13.72	13.97			
L1	3.60	3.80	4.00			
ØP	3.75	3.84	3.93			
Q	2,60	2,80	3,00			
Q1*						
R*						



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