



## Features

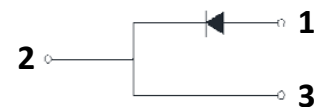
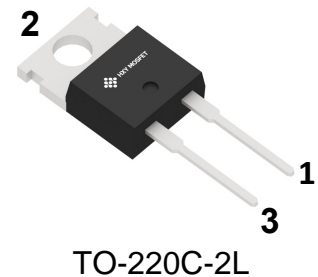
- Glass passivated chip
- Super fast switching time for high efficiency
- Low reverse leakage current
- High surge capacity

## 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	Limit	Unit
Repetitive Peak Reverse Voltage	VRRM	600	V
Average Rectified Output Current @60Hz half sine-wave, R-load, Tc(FIG.1)	Io	15	A
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25°C	IFSM	150	A
Storage Temperature	Tstg	-55 ~ +150	°C
Junction Temperature	Tj	-55 ~ +150	°C

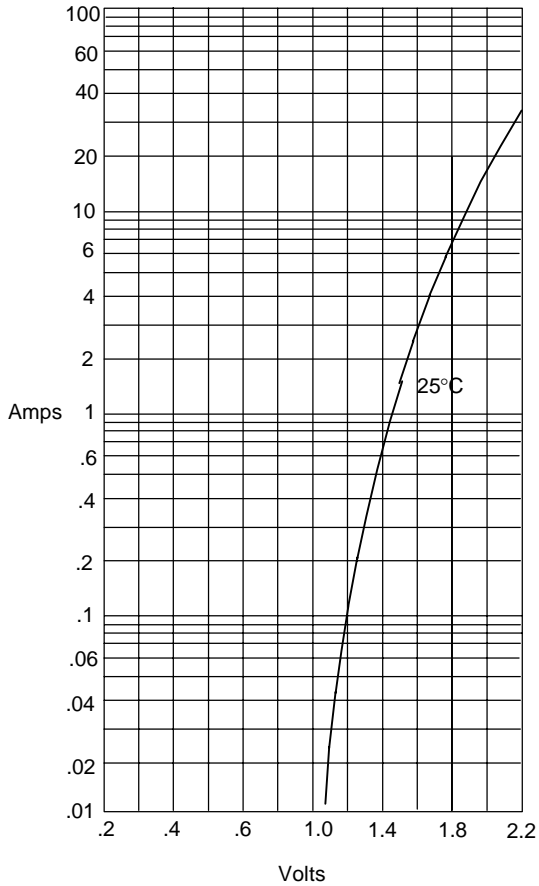
## Electrical Characteristics(Ta=25°C Unless otherwise specified)

Parameter	Symbol	Test Conditions	Limit	Unit
Maximum instantaneous forward voltage drop per diode	VFM	IFM=15A	1.50	V
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	VRM=VRRM Ta=25°C	10	uA
	IRRM2	VRM=VRRM Ta=125°C	1000	
Reverse Recovery Time	Trr	IF=0.5A IRM=1A IRR=0.25A	60	ns



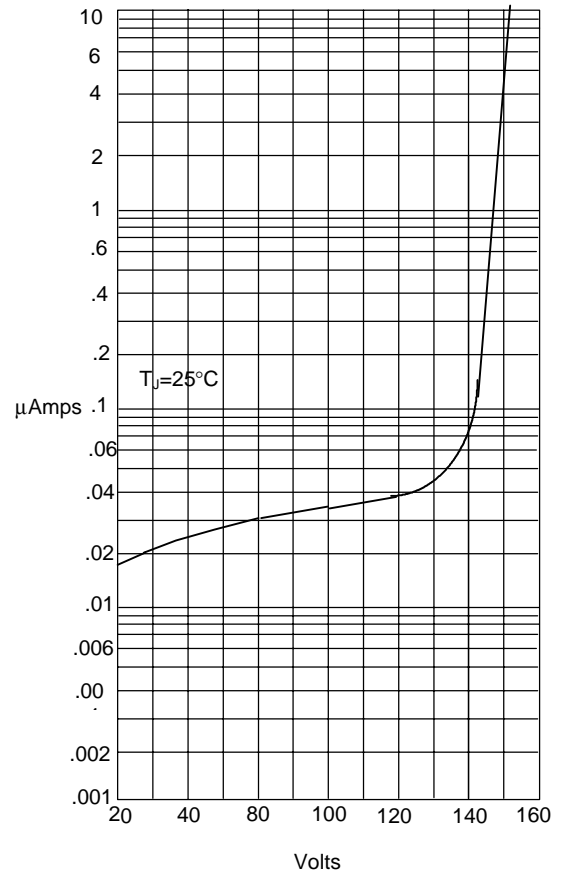
## Typical Characteristics

Figure 1  
Typical Forward Characteristics



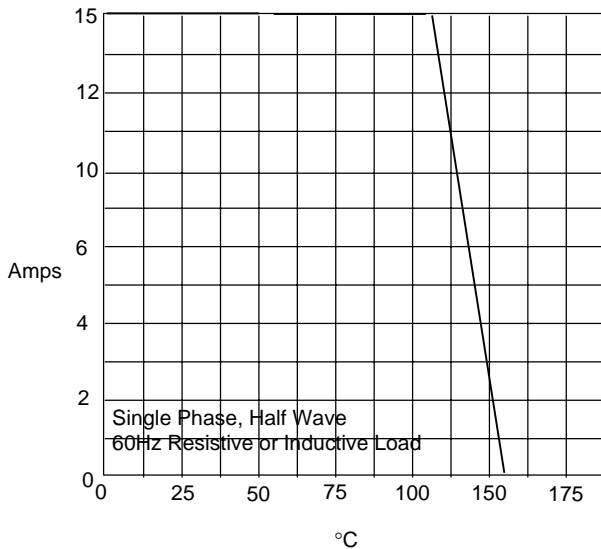
Instantaneous Forward Current - Amperes versus  
Instantaneous Forward Voltage - Volts

Figure 2  
Typical Reverse Characteristics



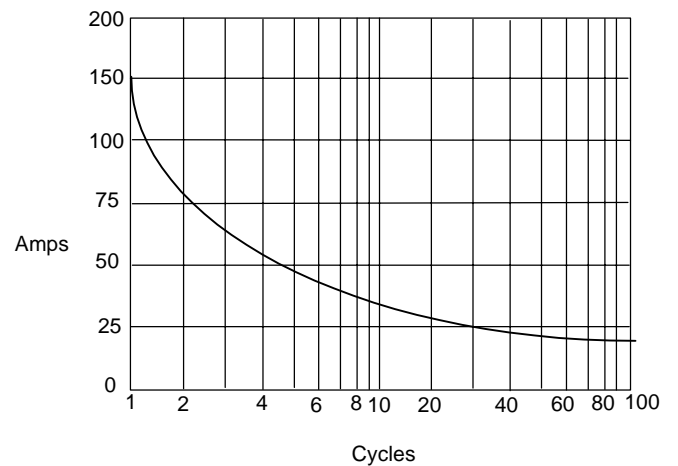
Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3  
Forward Derating Curve



Average Forward Rectified Current - Amperes versus  
Case Temperature - °C

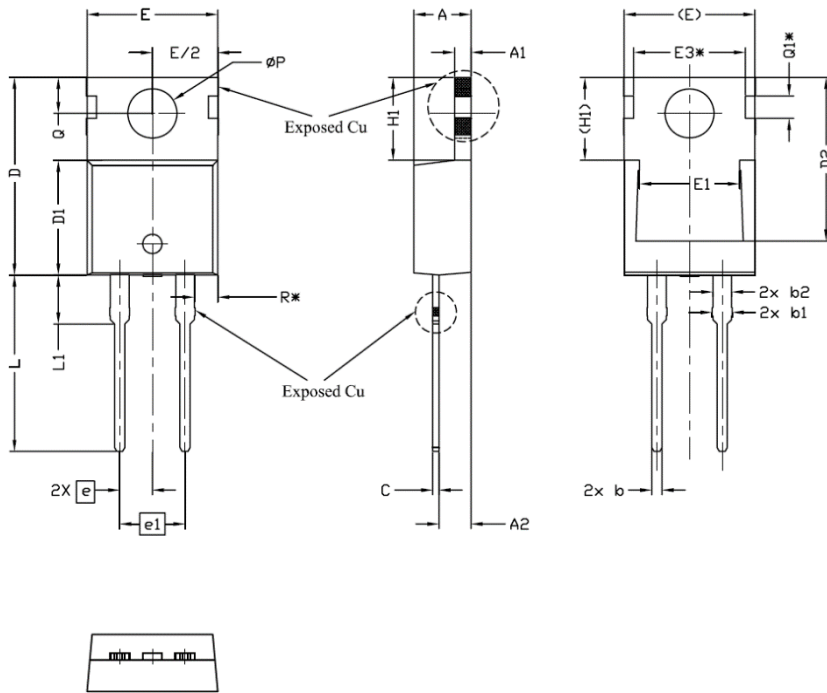
Figure 4  
Maximum Non-Repetitive Forward Surge Current



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

## Package Information

### TO-220C-2L



SYMBOL	DIMENSIONS			NOTES
	MIN.	NOM.	MAX.	
A	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	
c	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*	8.70REF.			
e	2.54BSC			
e1	5.08BSC			
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*	1.73REF.			
R*	1.82REF.			



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