

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Surge Forward Current Capability
- Glass Passivated Chip Junction

15 Amp General Purpose Rectifier 1500 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	1500	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	1050	V
Average Rectified Forward Current	I _{F(AV)}	15	Α
Non-Repetitive Peak Surge Current @8.3ms Half Sine Wave	I _{FSM}	200	А
Current Squared Time @ 1ms≤t≤8.3ms	l ² t	166	A ² s

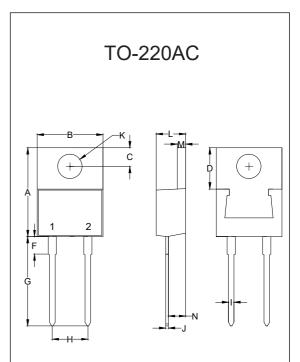
Marking Code

Part Number	Marking Code
GP1515	GP1515

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol			
1	Cathode					
2	Anode	MCC.	PIN 1 ∘———			
		GP1515	PIN 2 CASE			

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.420	9.65	10.67		
С	0.100	0.135	2.54	3.43		
D	0.230	0.270	5.84	6.86		
F		0.250		6.35		
G	0.500	0.580	12.70	14.73		
Н	0.190	0.210	4.83	5.33		
I	0.020	0.045	0.51	1.14		
J	0.012	0.025	0.30	0.64		
K	0.139	0.161	3.53	4.09	Ф	
L	0.140	0.190	3.56	4.83		
М	0.045	0.055	1.14	1.40		
N	0.080	0.115	2.03	2.92		



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case			2		°C/W

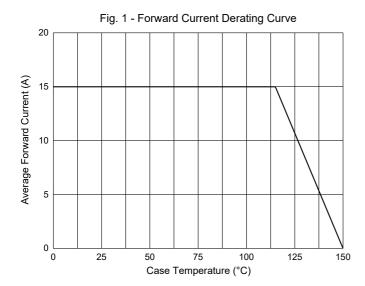
Electrical Characteristics @ 25°C Unless Otherwise Specified

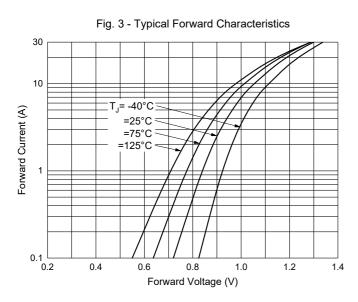
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =15A;T _J =25°C		1.12	1.20	V
		I _F =15A;T _J =125°C		1.05	1.10	V
Reverse Current	I _R	V _R =1500V;T _J =25°C			5	uA
		V _R =1500V;T _J =125°C			100	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		40		pF

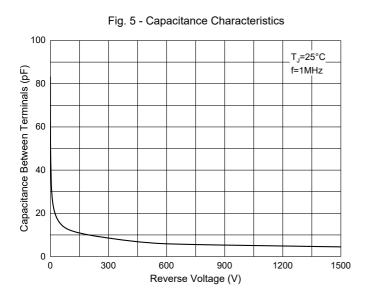
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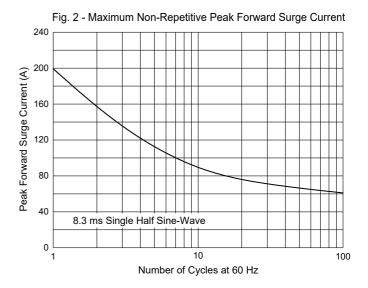


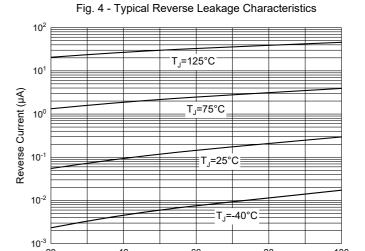
Curve Characteristics











Percent of Rated Peak Reverse Voltage (%)

20



Ordering Information

Device	Packing		
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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