

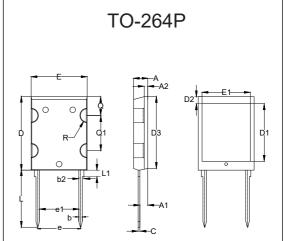
Features

- Halogen Free. "Green" Device (Note 1)
- High Surge Forward Current Capability
- Very Low Forward Voltage Drop
- Glass Passivated Chip Junction
- Improved Thermal Behaviour
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

120 Amp High Voltage Standard Rectifier 2200 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	2200	V
Non-repetitive Reverse Blocking Voltage	V _{RSM}	2300	V
Average Forward Current	I _{F(AV)}	120	
Non-Repetitive Peak Surge Current @50Hz Half Sine Wave,1 Cycle	I _{FSM}	2200	A
Current Squared Time @ 1ms≤t≤10ms	l²t	24200	A²s



DIMENSIONS

Internal	Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Anode		
2	Cathode	MCC GP12022	PIN 1 ⊶
			PIN 2 .
		Pin 1 Pin 2	

Note :

1.Halogen free "Green"products are defined as those which contain <900ppm bromine,
<900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
2.High temperature solder exemption applied, see EU directive annex 7a.

DIM	INCHES		MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.189	0.205	4.80	5.20	
A1	0.102	0.118	2.60	3.00	
A2	0.045	0.053	1.14	1.34	
b	0.046	0.054	1.16	1.36	
b2	0.067	0.075	1.70	1.90	
С	0.021	0.029	0.53	0.73	
D	1.020	1.039	25.90	26.40	
D1	0.791	0.823	20.10	20.90	
D2	0.083	0.115	2.12	2.92	
D3	0.996	1.016	25.31	25.81	
Е	0.772	0.795	19.60	20.20	
E1	0.659	0.691	16.75	17.55	
е	0.6	00	15	.24	TYP
e1	0.5	50	13	.98	TYP
L	0.780	0.820	19.82	20.82	
L1	0.081	0.101	2.07	2.57	
Q	0.252	0.276	6.40	7.00	
Q1	0.480	0.504	12.20	12.80	
R	0.087	0.115	2.22	2.92	



Thermal characteristics

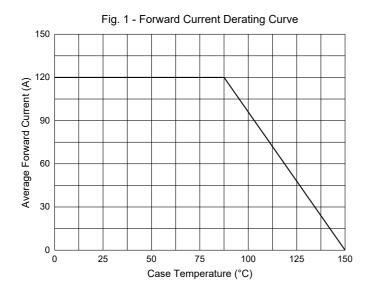
Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case			0.5		°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

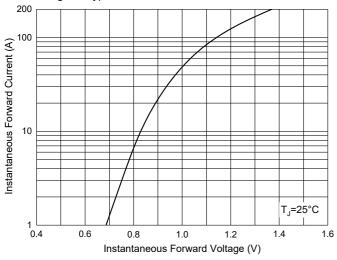
Parameter	Symbol	Test Conditions	Min	Тур	Мах	Unit
Forward Voltage	V _F	I _F =120A;T _J =25°C		1.2	1.31	V
		V _R =2200V;T _J =25°C			100	
Reverse Current	I _R	V _R =2200V;T _J =100°C			500	uA
		V _R =2200V;T _J =150°C			3500	



Curve Characteristics







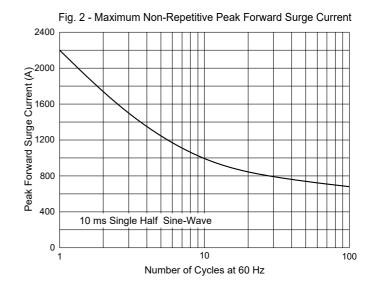
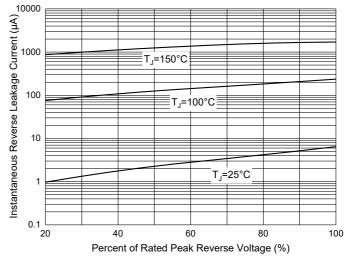


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-BP	Tube: 20pcs/Tube, 400pcs/Box, 2Kpcs/Ctn		

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