

Features

- High Frequency Operation
- Low Forward Voltage Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

• Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

• Thermal Resistance : 2.0°C/W Junction to Case

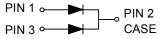
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL40100CT	MBRBL40100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

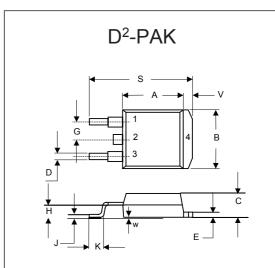
Average Forward Current	I _{F(AV)}	40A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine
Current Squared Time	l²t	373A ² S	1ms≤t<8.3ms
Instantaneous Forward Voltage	V _F	0.65V(Typ.) 0.71V(Max.) 0.61V(Typ.) 0.75V(Max.)	I _{FM} =20A T _J =25°C I _{FM} =20A T _J =25°C I _{FM} =20A T _J =125°C I _{FM} =20A T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.08mA 20mA	T _J =25°C T _J =100°C
Typical Junction Capacitance	С	1nF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure:

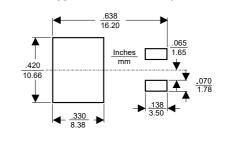


40 Amp Low VF Schottky Barrier Rectifier 100 Volts



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
Dilvi	MIN	MAX	MIN	MAX	NOTE		
Α	0.331	0.370	8.40	9.40			
В	0.378	0.417	9.60	10.60			
С	0.165	0.189	4.20	4.80			
D	0.027	0.037	0.68	0.94			
E	0.045	0.055	1.14	1.40			
G	0.010		2.54		TYP.		
Н	0.096	0.134	2.43	3.40			
J	0.011	0.025	0.28	0.64			
K	0.071	0.131	1.80	3.32			
S	0.575	0.625	14.60	15.87			
V	0.042	0.058	1.07	1.47			
W	0.000	0.010	0.00	0.25			

Suggested Solder Pad Layout





Curve Characteristics

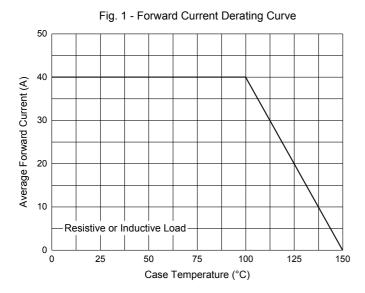
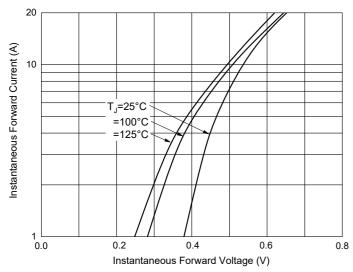


Fig. 3 - Typical Instantaneous Forward Characteristics



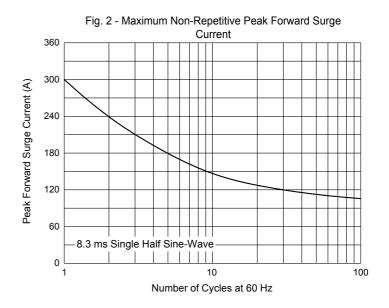
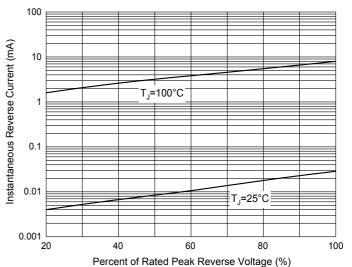


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Tube: 5Kpcs/Ctn		

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

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