

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 : 4.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL40100FCT	MBRL40100FCT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

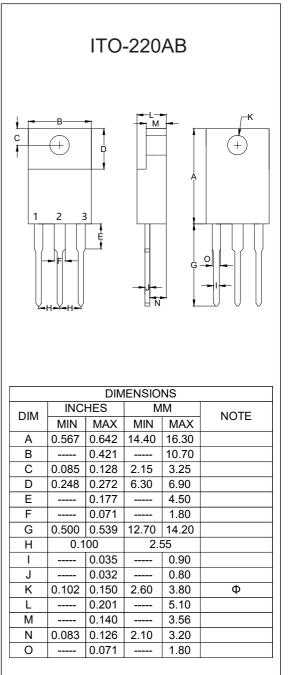
Average Forward Current	I _{F(AV)}	40A	T _C =40⁰C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine
Current Squared Time	l²t	373A ² S	1ms≤t<8.3ms
Instantaneous Forward Voltage	V _F	0.65V(Typ.) 0.71V(Max.) 0.61V(Typ.) 0.75V(Max.)	I _{FM} =20A T _J =25°C I _{FM} =20A T _J =25°C I _{FM} =20A T _J =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 =25⁰C T _J =100⁰C
Typical Junction Capacitance	CJ	1nF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure:

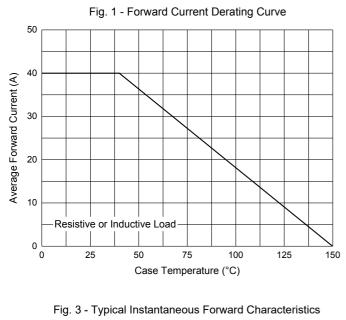
PIN 1 • PIN 2

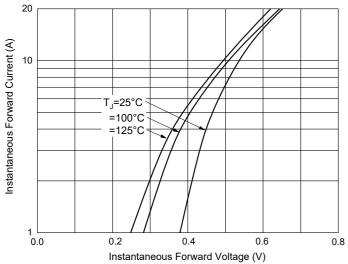
40 Amp Low VF Schottky Barrier Rectifier 100 Volts

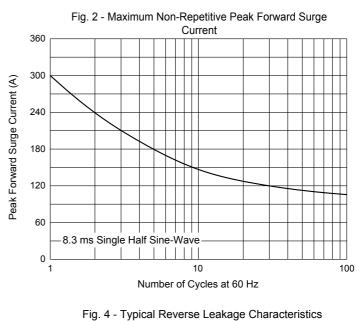


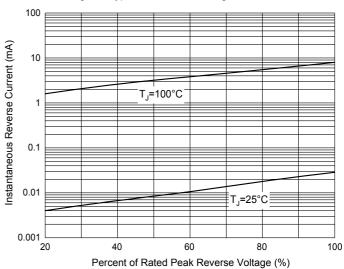


Curve Characteristics











Ordering Information

Device	Packing
Part Number-BP	Bulk;1Kpcs/Box

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

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