

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Ultra Low Forward Voltage Drop
- Low Thermal Resistance
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- 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
- Maximum Thermal Resistance: 40°C/W Junction to Ambient

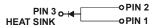
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
MBR20100ULPS	20100UL	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

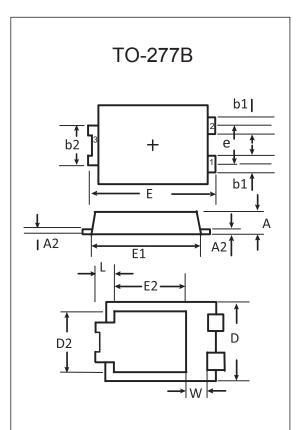
Average Forward Current	I _{F(AV)}	20A	T _C = 125°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine
Forward Voltage	V _F	0.60V(Typ) 0.66V(Max)	I _F =20A
Reverse Current	I _R	30μA(Typ) 80μA(Max)	V _R =100
Breakdown Voltage	V_{BR}	100V(Min)	I _R =0.5mA

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Internal Structure



20 Amp Low VF Schottky Barrier Rectifier 100 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.039	0.047	1.00	1.20			
A2	0.006	0.017	0.15	0.43			
b1	0.030	0.041	0.75	1.05			
b2	0.065	0.077	1.65	1.95			
D	0.148	0.169	3.75	4.30			
D2	0.110	0.126	2.80	3.20			
Е	0.250	0.264	6.35	6.70			
е	0.065	0.077	1.65	1.95			
E1	0.207	0.228	5.25	5.80			
E2	0.120	0.142	3.05	3.60			
L	0.028	0.051	0.70	1.30			
W	0.031	0.056	0.80	1.42			



Curve Characteristics

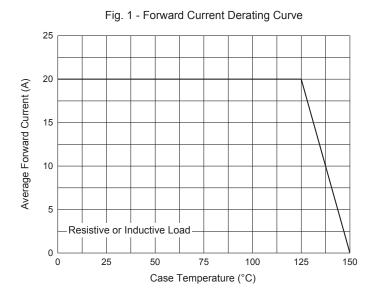


Fig. 3 - Typical Instantaneous Forward Characteristics

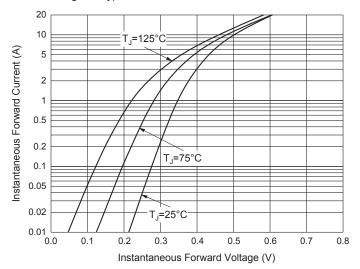
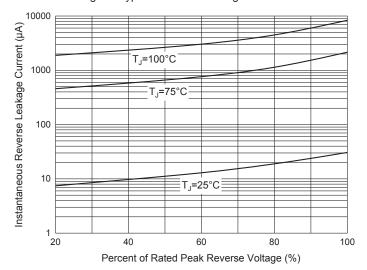


Fig. 2 - Typical Junction Capacitance

3000
2500
1500
1000
500
1 100 100
Reverse Bias Voltage (V)

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel:5Kpcs/Reel	

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

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