

**Features**

- High Current Capability, High Efficiency
- Guard Ring for Enhanced Ruggedness
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 3

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL30P100	MBRL30P100	100V	70V	100V

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

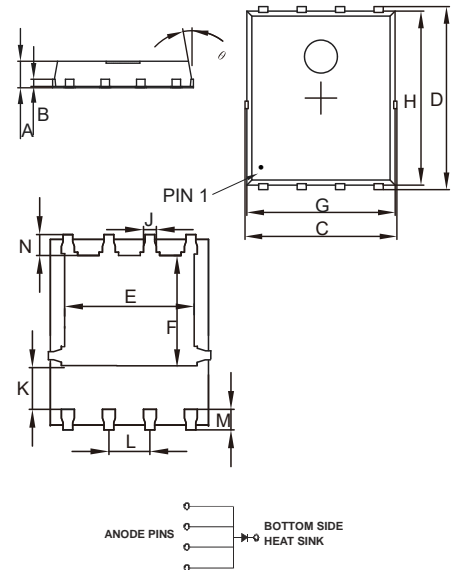
Average Forward Current	$I_{F(AV)}$	30A	See Fig. 1
Peak Forward Surge Current	$I_{FSM}$	250A	8.3ms, Half Sine
Forward Voltage	$V_F$	0.81V(Typ) 0.85V(Max) 0.75V(Typ) 0.80V(Max)	$I_F=30A ; T_J=25^\circ C$ $I_F=30A ; T_J=25^\circ C$ $I_F=30A ; T_J=125^\circ C$ $I_F=30A ; T_J=125^\circ C$
Reverse Leakage Current	$I_R$	13uA(Typ) 0.1mA(Max) 20mA(Max)	$T_J=25^\circ C$ $T_J=25^\circ C$ $T_J=125^\circ C$
Typical Junction Capacitance	$C_J$	1.35nF	Measured at 1.0MHz $V_R=4.0V$

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.

**30 Amp  
Schottky Barrier  
Rectifier  
100 Volts**

**DFN5060**



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.031	0.047	0.80	1.20	
B	0.010		0.254		TYP.
C	0.193	0.222	4.90	5.64	
D	0.232	0.250	5.90	6.35	
E	0.148	0.167	3.75	4.25	
F	0.126	0.154	3.20	3.92	
G	0.189	0.213	4.80	5.40	
H	0.222	0.239	5.65	6.06	
K	0.045	0.059	1.15	1.50	
J	0.012	0.020	0.30	0.50	
L	0.046	0.054	1.17	1.37	
M	0.012	0.028	0.30	0.71	
N	0.016	0.028	0.40	0.71	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

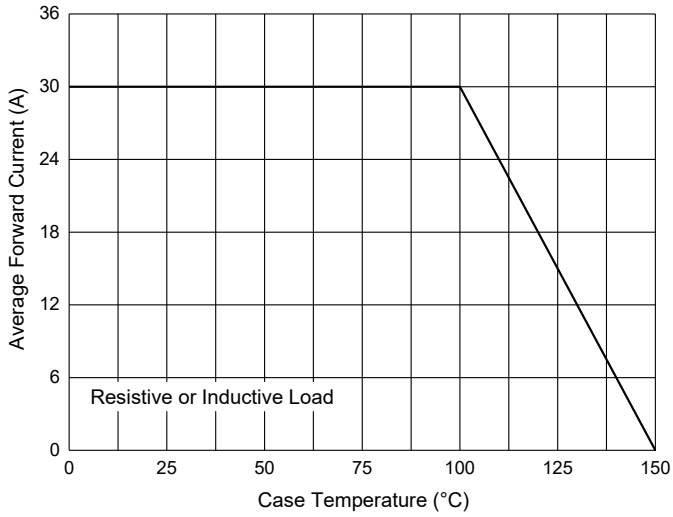


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

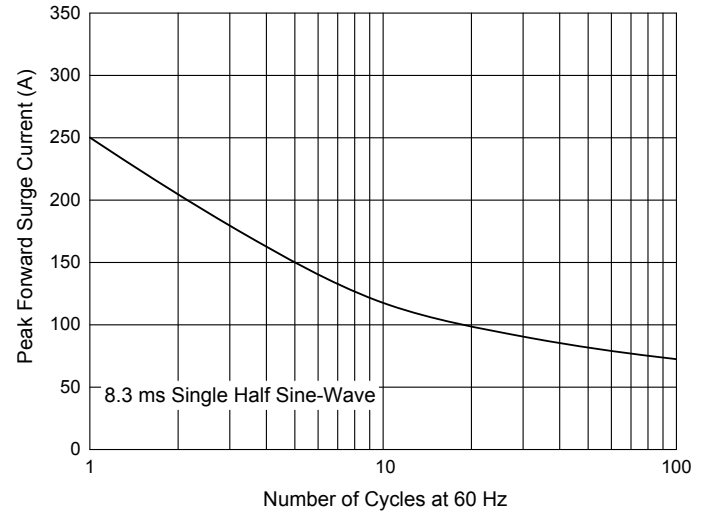


Fig. 3 - Typical Instantaneous Forward Characteristics

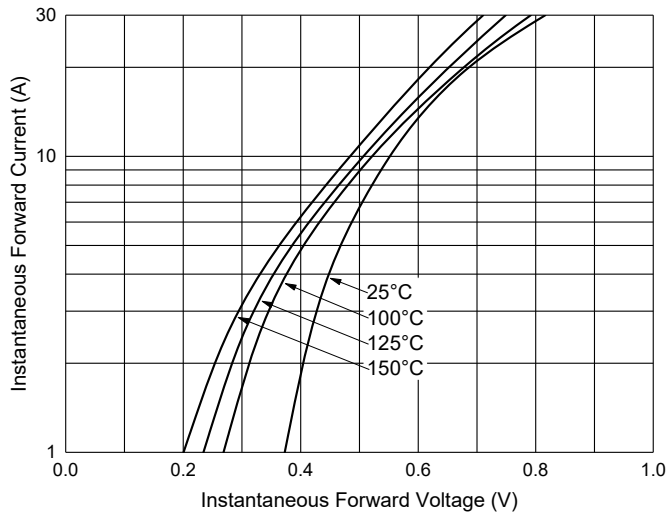
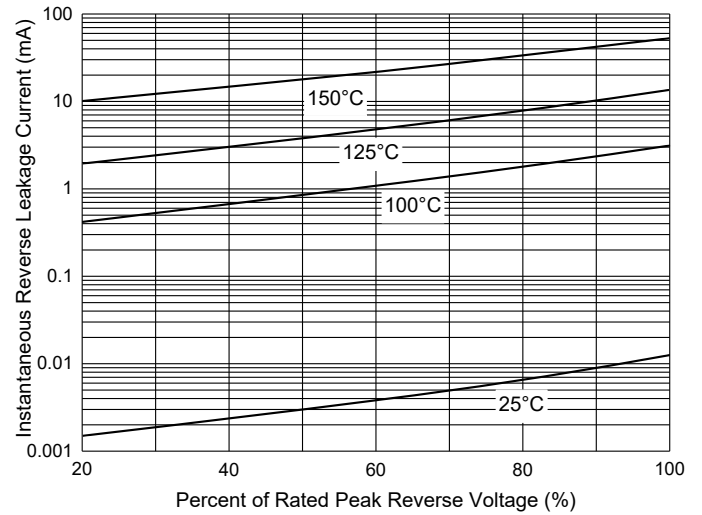


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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