

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Forward Voltage Drop

Maximum Ratings

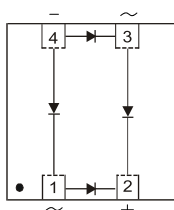
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 215°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MB0540SLP	10L40BP	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

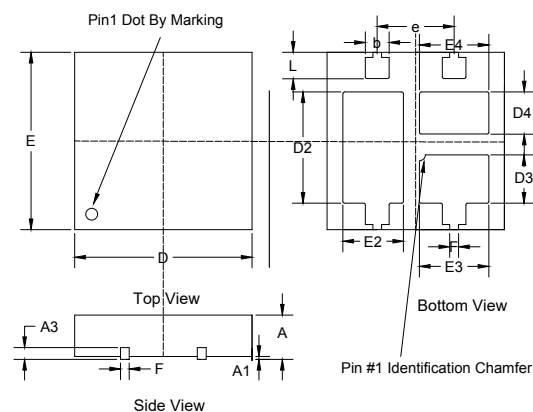
Average Rectified Output Current	$I_{F(AV)}$	0.5A	$T_A=100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	8.0A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.40V 0.35V(Typ.) 0.45V 0.40V(Typ.) 0.52V 0.45V(Typ.) 0.58V 0.52V(Typ.)	$I_{FM} = 0.1A ; T_A = 25^\circ\text{C}$ $I_{FM} = 0.25A ;$ $I_{FM} = 0.5A ;$ $I_{FM} = 1A ;$
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	10µA 1µA(Typ.) 1mA	$T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$
Typical Diode capacitance	C_D	50pF	$V_R=4V, f=1\text{MHz}$

Device Schematic:



0.5 Amp Low VF Surface Mount Schottky Barrier Bridge 40 Volts

DFN3030-4L



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.028	0.031	0.700	0.800	
A1	0.000	0.002	0.000	0.050	
A3	0.008		0.200		REF
D	0.116	0.120	2.950	3.050	
E	0.116	0.120	2.950	3.050	
D2	0.070	0.078	1.780	1.980	
E2	0.036	0.044	0.925	1.126	
D3	0.028	0.036	0.715	0.915	
E3	0.044	0.049	1.125	1.250	
D4	0.026	0.030	0.665	0.765	
E4	0.042	0.050	1.075	1.275	
b	0.014	0.018	0.350	0.450	
L	0.016	0.020	0.400	0.500	
e	0.051		1.300		BSC
F	0.006		0.150		REF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

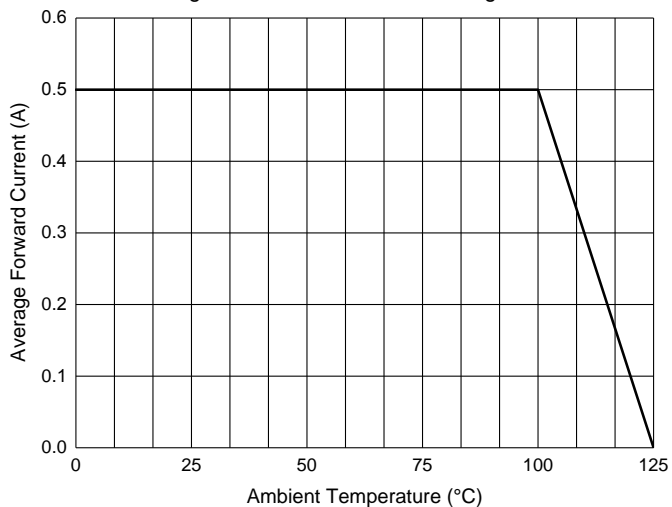


Fig. 2 - Forward Characteristics

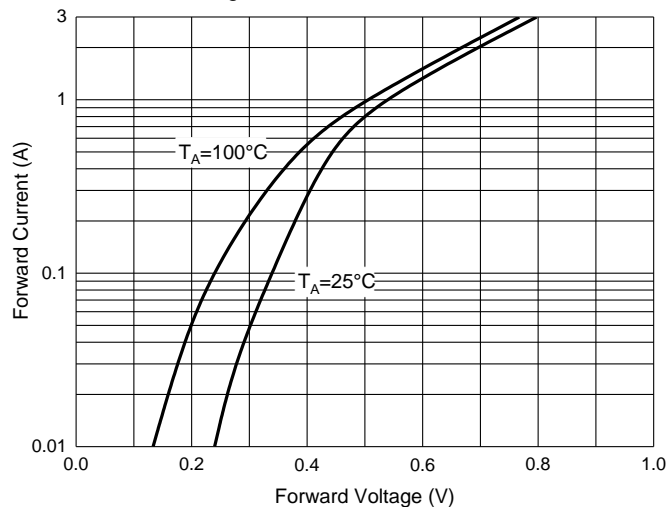


Fig. 3 - Reverse Characteristics

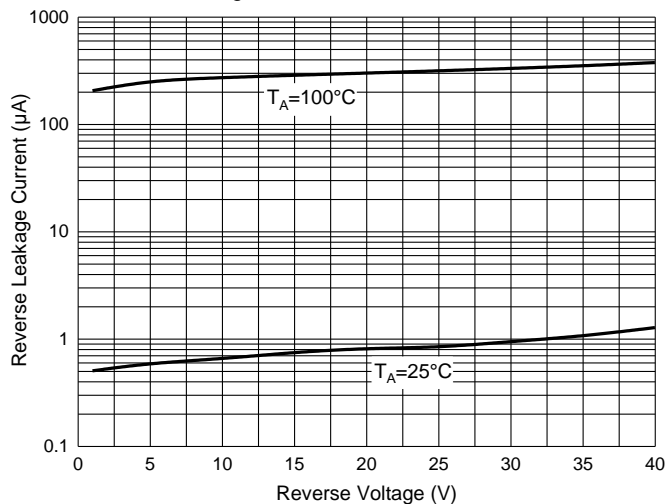
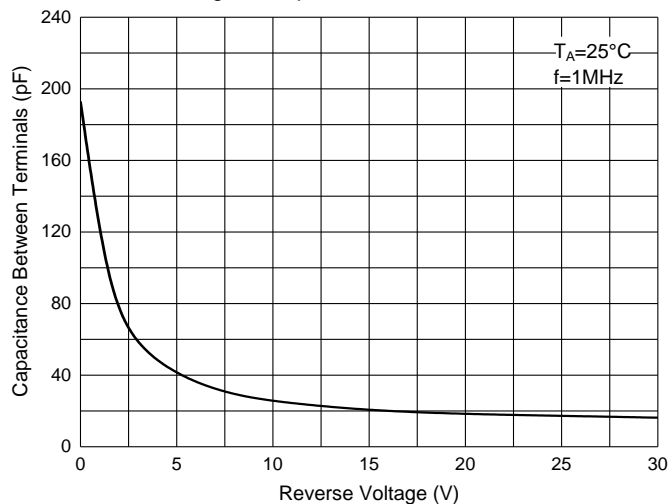


Fig. 4 - Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;3Kpcs/Reel

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