



Micro Commercial Components



Micro Commercial Components
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Features

- Halogen free available upon request by adding suffix "-HF"
- Ultra Low Forward Voltage Drop
- High Current Capability
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature:-55°C to +150°C
- Storage Temperature:-55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1545PS	1545	45V	31.5V	45V

Electrical Characteristics @25°C Unless Otherwise Specified

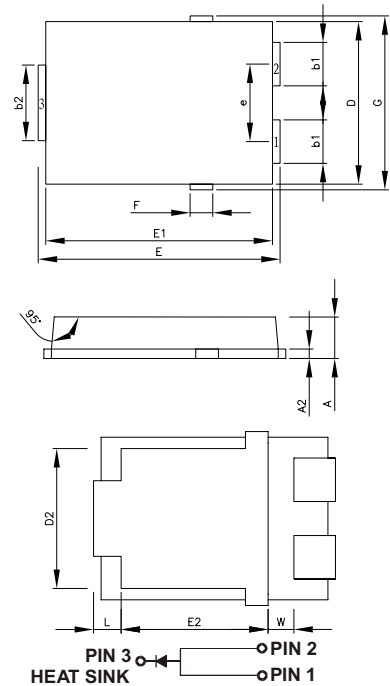
Average Forward Current	$I_{F(AV)}$	15A			$T_L = 90^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	280A			8.3ms, half sine
Forward Voltage	V_F	Min.	Typ.	Max.	$I_F=8A \quad T_J=25^\circ\text{C}$ $I_F=15A$
		---	0.43V 0.50V	0.55V	
Reverse Current	I_R	---	50uA ---	1mA 120mA	$V_R=45V \quad T_J=25^\circ\text{C}$ $V_R=45V \quad T_J=125^\circ\text{C}$
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Maximum thermal Resistance	$R_{\theta JC}$	8.0 °C/W			

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

MBR1545PS

15 Amp Schottky Barrier Rectifier 45 Volts

TO-277A



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.039	.047	1.00	1.20	
A2	.008	.012	0.20	0.30	
b1	.039	.047	1.00	1.20	
b2	.075	.083	1.90	2.10	
D	.165	.173	4.20	4.40	
D2	.138	.150	3.50	3.80	
E	.248	.256	6.30	6.50	
e	.079	.083	2.00	2.10	
E1	.232	.240	5.90	6.10	
E2	.149	.157	3.79	3.99	
L	.027	.031	0.68	0.78	
W	.025	.029	0.63	0.73	
F	.022	.026	0.55	0.65	
G	.177	.185	4.50	4.70	



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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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