

Micro Commercial Components

Low Forward Voltage Drop

Moisture Sensitivity Level 1

High Current Capability

Features



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939

MBR1045UPS

10 Amp Schottky Barrier Rectifier 45 Volts

Maximum Ratings

Operating Temperature:-55°C to +150°C

RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating

Storage Temperature:-55°C to +150°C

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR1045UPS	1045U	45V	31.5V	45V

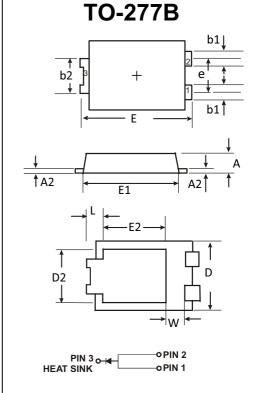
Halogen free available upon request by adding suffix "-HF"

Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates

Flectrical Characteristics @ 25°C Unless Otherwise Specified

Electrical characteristics @ 25 c offies offier wise specified						
Average Forward Current	I _{F(AV)}		10A		T _L = 90°	°C
Peak Forward Surge Current	I _{FSM}		180A		8.3ms,	half sine
		Min.	Тур.	Max.		
Forward Voltage	V_{F}		0.34V 0.39V 0.46V	 0.50V	I _F =2A I _F =5A I _F =10A	T _J =25°C
			0.30V 0.35V 0.41V	 0.45V	I _F =2A I _F =5A I _F =10A	TJ=125°C
Reverse Current			50uA		V _R =36	T _J =25°C
	I _R	1 1	-1-	0.25mA 25mA		TJ=25°C TJ=125°C
Typical Thermal Resistance,Junction To Ambient Air	$R_{\theta JA}$		60℃/\	N		





	INCHES		М		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.039	.047	1.00	1.20	
A2	.006	.017	0.15	0.43	
b1	.030	.041	0.75	1.05	
b2	.065	.077	1.65	1.95	
D	.148	.169	3.75	4.30	
D2	.110	.126	2.80	3.20	
Е	.250	.264	6.35	6.70	
е	.065	.077	1.65	1.95	
E1	.207	.228	5.25	5.80	
E2	.120	.142	3.05	3.60	
٦	.028	.051	0.70	1.30	
W	.031	.056	0.80	1.42	

MBR1045UPS



RATING AND CHARACTERISTIC CUEVES

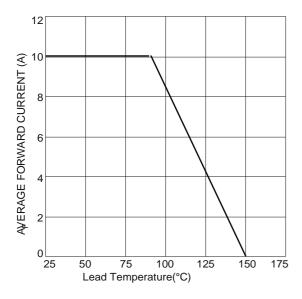


Figure 1 Forward Current Derating Curve

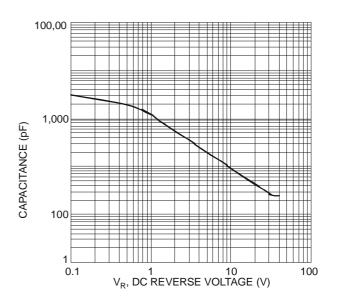


Figure 2 Typical Junction Capacitance

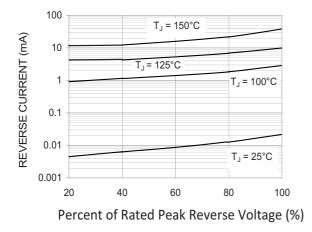


Figure 3 Typical Reverse Characteristics

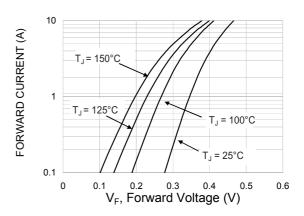


Figure 4 Typical Forward Characteristics



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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