

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Pb-Free Package
- Extremely Fast Switching
- Extremely Low Forward Drop
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 5°C/W Junction to Case

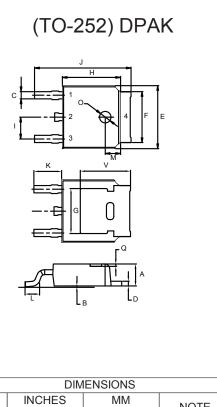
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRD10100CTS	MBRD10100CTS	100V	70V	100V
MBRD10150CTS	MBRD10150CTS	150V	105V	150V
MBRD10200CTS	MBRD10200CTS	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward RFectified Current	I _{F(AV)}	10A	T _C = 110°C
Ú^æ\ÁQ[¦,æ¦åÂÙĭ¦*^Á Ôĭ¦¦^}c	I _{FSM}	100A	8.3ms,Half Sine
Tæ¢ą̃ `{ Peak Forward Voltage MBRD10100CTS MBRD10150CTS MBRD10200CTS	V _{FM}	0.83V 0.70V 0.88V 0.75V 0.93V	I _{FM} =5.0A;T _J =25°C I _{FM} =5.0A;T _J =125°C I _{FM} =5.0A;T _J =25°C I _{FM} =5.0A;T _J =125°C I _{FM} =5.0A;T _J =25°C
		0.80V	I _{FM} =5.0A;T _J =125°C
Tæ¢ą̃ ັ{ ∕ÂPeak Reverse Current	I _{RM}	0.01mA 1mA	T _J =25°C T _J =125°C
V [^]] a&aaaaaaaa Ôaaaaaaaaaaaaaaaaa MBRD10100CTS MBRD10150CTS MBRD10200CTS	CJ	250pF 100pF 75pF	Measured at 1.0MHz, V _R =4.0V

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a. **Internal Structure:**

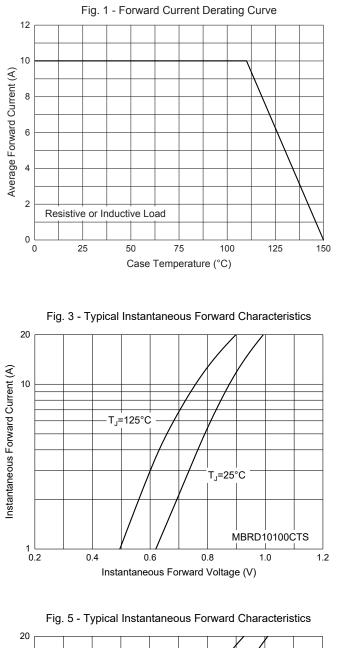
10 Amp Schottky Rectifier 100~200 Volts

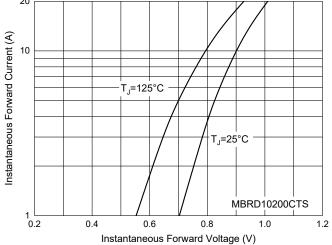


	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83			
Н	0.236	0.244	6.00	6.20		
	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
Κ	0.1	14	2.9	90		
L	0.055	0.067	1.40	1.70		
М	0.063		1.60			
0	0.043	0.051	1.10	1.30		
Q	0.000	0.012	0.00	0.30		
V	0.211		5.35			



Curve Characteristics





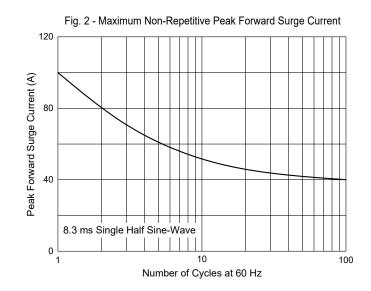


Fig. 4 - Typical Instantaneous Forward Characteristics

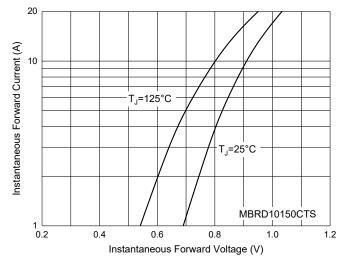
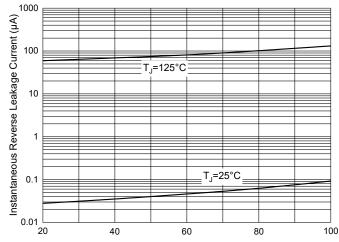


Fig. 6 - Typical Reverse Leakage Characteristics



Percent of Rated Peak Reverse Voltage (%)



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel	

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

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