

ZIBO MICRO COMMERCIAL COMPONENTS CORP.



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Features

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Extremely Fast Switching
- Extremely Low Forward Drop.
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

Maximum Ratings

MBRD10100CT

Peak reverse current

MBRD1020CT-100CT

MBRD1020CT-45CT

MBRD1050CT-100CT

Thermal resistance

Operating Temperature(TJ): -65℃ to +150℃

•	 Storage Temperature(TsтG): -65[°]C to +150[°]C 									
	Part Number	Recurrent Peak Reverse Voltage		Maximum RMS Voltage		Maximum DC Blocking Voltage				
	MBRD1020CT	20		14		20				
	MBRD1030CT	30		21		30				
	MBRD1045CT	45		32		45				
	MBRD1050CT	50		35		50				
	MBRD1060CT	60		42		60				
	MBRD1080CT	80		57		80				
	MBRD10100CT	100		71		100				
E	Electrical Characteristics @ 25°C Unless Otherwise Specified									
	Max average for rectified current	rward	I _(AV)	10A						
	Max surge current		I _{FSM}	150A	8.3n	ns, half sine				
	Peak forward voltage MBRD1020CT-45CT MBRD1050CT-60CT MBRD1080CT		V _{FM}	0.65V 0.75V 0.80V	I _{FM} =	= 5.0A				

 \mathbf{I}_{RM}

R _{JC}

0.85V

0.5mA

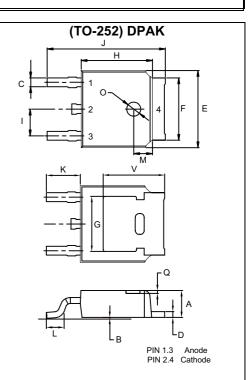
50mA

25mA

2.5°C/W

MBRD1020CT Thru **MBRD10100CT**

10 Amp Schottky Rectifier 20V-100V



DIMENSIONS								
	INC	HES	MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	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				
Ι	0.086	0.094	2.18	2.39				
J	0.386	0.409	9.80	10.40				
K	0.114		2.90					
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	0.2	11	5.35					

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T_A = 25℃

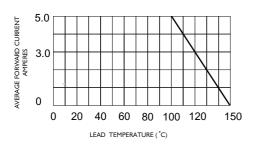
T_A = 100°C

T_A = 100°C



MBRD1020CT-MBRD10100CT

FIG.1-FORWARD CURRENT DERATING CURVE





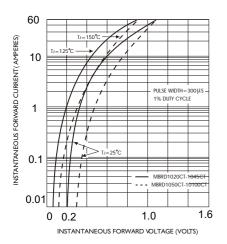


FIG.5-TYPICAL JUNCTION CAPACITANCE

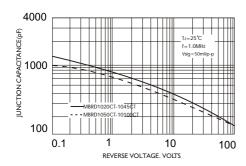
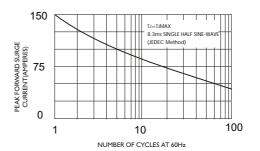


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT





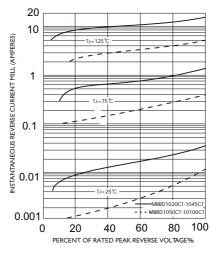
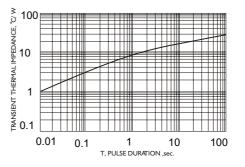


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

LIFE SUPPORT

ZBMCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of ZiBo Micro Commercial Components Corp.

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