



ZBMCC

ZIBO MICRO COMMERCIAL
COMPONENTS CORP.



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MURD1020CT THRU MURD1060CT

10 Amp Superfast Rectifier 200~600 Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)
- Easy pick and place
- Superfast recovery times for high efficiency
- 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
- Maximum Thermal Resistance (Per Leg):
80°C/W Junction To Ambient

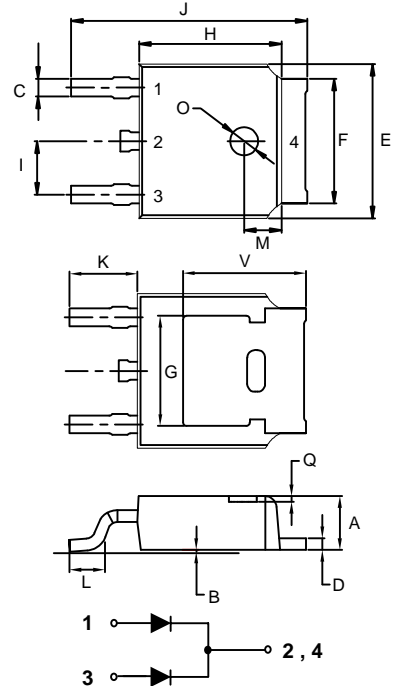
Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURD1020CT	MURD1020	200V	140V	200V
MURD1030CT	MURD1030	300V	210V	300V
MURD1040CT	MURD1040	400V	280V	400V
MURD1060CT	MURD1060	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	10A	$T_C=100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage Per Leg MURD1020CT MURD1030~40CT MURD1060CT	V_F	0.95V 1.30V 1.70V	$I_F=5.0A; T_A=25^\circ\text{C}$ $I_F=5.0A; T_A=25^\circ\text{C}$ $I_F=5.0A; T_A=25^\circ\text{C}$
Maximum Instantaneous Reverse Current Per Leg	I_R	5.0uA 50uA	$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$
Maximum Reverse Recovery Time	t_{rr}	35ns	$I_R=1.0A; I_F=0.5A, I_{RR}=0.25A$

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

(TO-252) DPAK



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	0.087	0.094	2.20	2.40	
B	0.000	0.005	0.00	0.13	
C	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
E	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.190		4.83		
H	0.236	0.244	6.00	6.20	
I	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	
M	0.063		1.60		
O	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		



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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.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. ZiBo Micro Commercial Components Corp. is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. ZBMCC strongly encourages customers to purchase ZBMCC parts either directly from ZBMCC or from Authorized ZBMCC Distributors who are listed by country on our web page cited below. Products customers buy either from ZBMCC directly or from Authorized ZBMCC Distributors are genuine parts, have full traceability, meet ZBMCC's quality standards for handling and storage. ZBMCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. ZBMCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.