

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Super Fast Switching For High Efficiency
- High Junction Temperature Capability

20 Amp Super Fast Rectifiers 200 Volts

Maximum Ratings

Operating Junction Temperature Range: -55°C to +175°C

• Storage Temperature Range: -55°C to +175°C

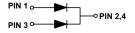
• Typical Thermal Resistance : 3.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURD2020C	MURD2020CT	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

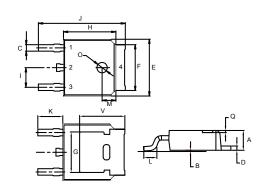
Average Rectified Forward Current	I _{F(AV)}	20A	T _C =130°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.90V 0.85V(Typ.) 0.80V	I _F =10A; T _A =25°C I _F =10A; T _A =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10μA 1.0mA	T _A =25°C T _A =125°C
Maximum Reverse Recovery Time	t _{rr}	30ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

 $Note: 1. \ High \ Temperature \ Solder \ Exemptions \ Applied, \ See \ EU \ Directive \ Annex \ Notes \ 7a.$



Internal Structure

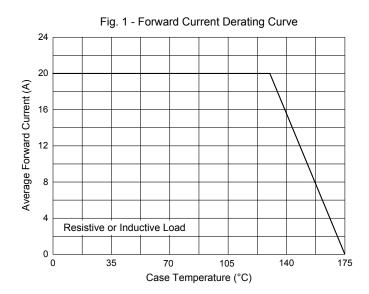
DPAK(TO-252)

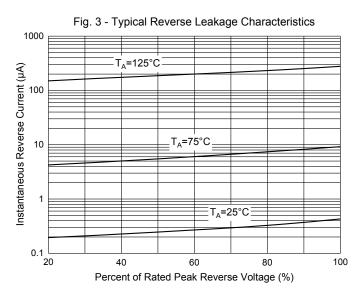


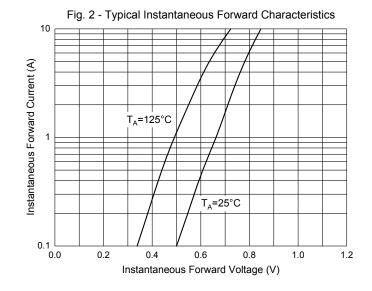
DIMENSIONS						
INCHES		MM		NOTE		
MIN	MAX	MIN	MAX	NOTE		
0.087	0.094	2.20	2.40			
0.000	0.005	0.00	0.13			
0.026	0.034	0.66	0.86			
0.018	0.023	0.46	0.58			
0.256	0.264	6.50	6.70			
0.201	0.215	5.10	5.46			
0.190		4.83		TYP.		
0.236	0.244	6.00	6.20			
0.086	0.094	2.18	2.39			
0.386	0.409	9.80	10.40			
0.1	14	2.9	90	TYP.		
0.055	0.067	1.40	1.70			
0.063		1.60		TYP.		
0.043	0.051	1.10	1.30			
0.000	0.012	0.00	0.30			
0.2	11	5.3	35	TYP.		
	MIN 0.087 0.000 0.026 0.018 0.256 0.201 0.1 0.236 0.386 0.386 0.1 0.055 0.0 0.043 0.000	INCHES MIN MAX 0.087 0.094 0.000 0.005 0.026 0.034 0.018 0.256 0.264 0.201 0.215 0.190 0.236 0.244 0.086 0.409 0.114 0.055 0.067 0.063 0.043 0.051	INCHES M MIN MAX MIN 0.087 0.094 2.20 0.000 0.005 0.00 0.026 0.034 0.66 0.256 0.264 6.50 0.201 0.215 5.10 0.190 4.8 0.236 0.244 6.00 0.086 0.094 2.18 0.386 0.409 9.80 0.114 2.5 0.055 0.067 1.40 0.063 1.10 0.000 0.012 0.00 0.001	INCHES MM MIN MAX MIN MAX 0.087 0.094 2.20 2.40 0.000 0.005 0.00 0.13 0.026 0.034 0.66 0.86 0.018 0.023 0.46 0.58 0.256 0.264 6.50 6.70 0.201 0.215 5.10 5.46 0.190 4.83 0.236 0.244 6.00 6.20 0.086 0.094 2.18 2.39 0.386 0.409 9.80 10.40 0.114 2.90 0.055 0.067 1.40 1.70 0.063 1.60 0.043 0.051 1.10 1.30 0.000 0.012 0.00 0.30		



Curve Characteristics









Ordering Information

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

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

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC 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.