

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

10 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

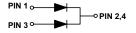
• Typical Thermal Resistance : 3.0°C/W Junction to Case

Par	MCC rt Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUF	RD1020CT	MURD1020CT	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

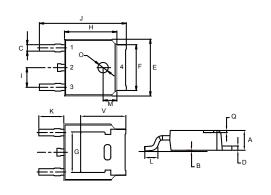
Average Rectified Forward Current	I _{F(AV)}	10A	T _C =130°C
Peak Forward Surge Current	I _{FSM}	80A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.95V 0.86V(Typ.) 0.82V	I _F =5A; T _A =25°C I _F =5A; T _A =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 50μΑ	T _A =25°C T _A =125°C
Maximum Reverse Recovery Time	t _{rr}	25ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

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



Internal Structure

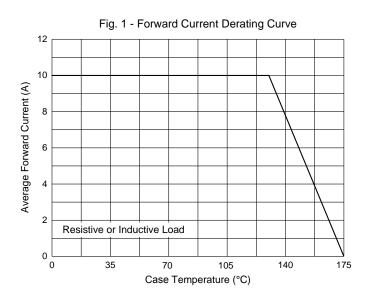
DPAK(TO-252)

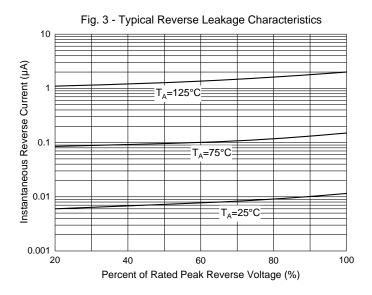


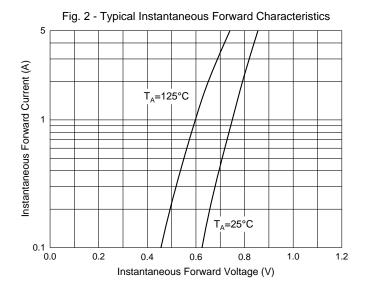
DIMENSIONS								
INCHES		MM		NOTE				
MIN	MAX	MIN	MAX	NOTE				
0.087	0.094	2.20	2.40					
0.000	0.005	0.00	0.13					
0.026	0.034	0.66	0.86					
0.018	0.023	0.46	0.58					
0.256	0.264	6.50	6.70					
0.201	0.215	5.10	5.46					
0.190		4.83		TYP.				
0.236	0.244	6.00	6.20					
0.086	0.094	2.18	2.39					
0.386	0.409	9.80	10.40					
0.114		2.90		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					
0.211		5.35		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 0.234 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 0.041 0.000 0.012	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

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