

# Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time
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# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

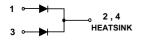
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURSB1040CTA	MURSB1040CTA	400V	280V	400V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

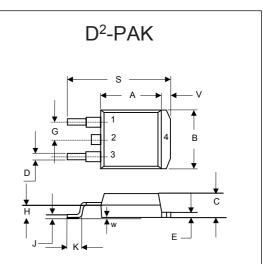
Average Rectified Forward Current	I <sub>F(AV)</sub>	10A	T <sub>C</sub> = 125°C
Peak Forward Surge Current	I <sub>FSM</sub>	70A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	1.08V(Typ) 1.25V(Max) 1.05V(Max)	I <sub>F</sub> =5A; T <sub>J</sub> =25⁰C I <sub>F</sub> =5A; T <sub>J</sub> =25⁰C I <sub>F</sub> =5A; T <sub>J</sub> =125⁰C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 50μΑ	Tյ=25⁰C; Tj=125⁰C
Maximum Reverse Recovery Time	t <sub>rr</sub>	35ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A; I <sub>RR</sub> =0.25A
Typical Junction Capacitance	CJ	35pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V

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

#### **Internal Structure**

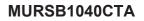


# 10 Amp FRED Rectifiers 400 Volts



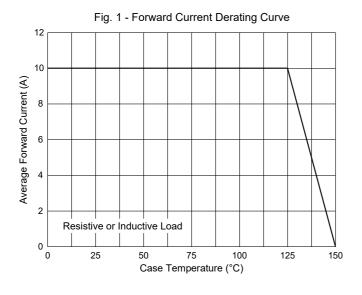
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
Е	0.045	0.055	1.14	1.40	
G	0.0	010	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
Κ	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

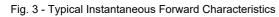
#### Suggested Solder Pad Layout 638 16.20 0.65 1.65 1.65 1.65 1.65 1.65 1.78 1.781.78

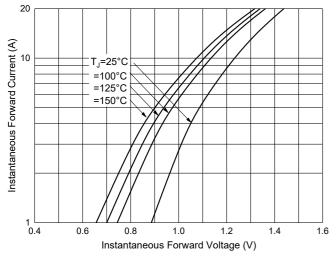


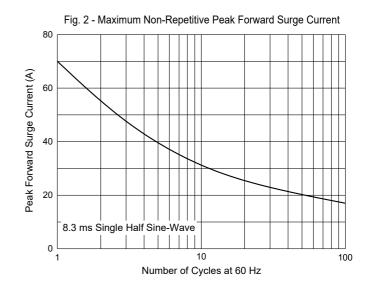


# **Curve Characteristics**

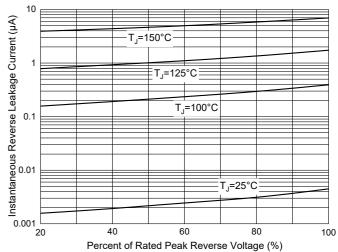














# **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton		

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

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