

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Reverse Leakage
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 2.0°C/W Junction to Case

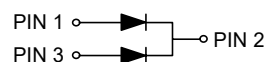
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UGJL2030CTH	UGJL2030CTH	300V	210V	300V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	20A	$T_C=130^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, Half Sine
Maximum Forward Voltage Drop Per Element	V_F	1.25V 1.0V	$I_{FM}=10A$ $T_J=25^\circ\text{C}$ $I_{FM}=10A$ $T_J=125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 300 μA	$T_J=25^\circ\text{C}$; $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	t_{rr}	25ns	$I_F=0.5A$; $I_R=1.0A$; $I_{rr}=0.25A$

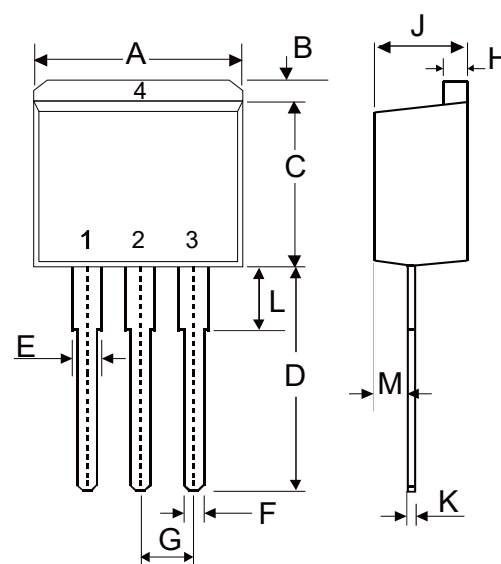
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure:



20 Amp Super Fast Rectifier 300 Volts

TO-262L



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.390	0.409	9.90	10.4	
B	0.049		1.27		
C	0.335	0.350	8.50	8.90	
D	0.524	0.543	13.3	13.8	
E	0.044	0.056	1.12	1.42	
F	0.026	0.038	0.66	0.96	
G	0.100		2.54		
H	0.044	0.056	1.12	1.42	
J	0.170	0.190	4.32	4.82	
K	0.011	0.020	0.28	0.52	
L	0.176	0.191	4.46	4.86	
M	0.056	0.064	1.43	1.63	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

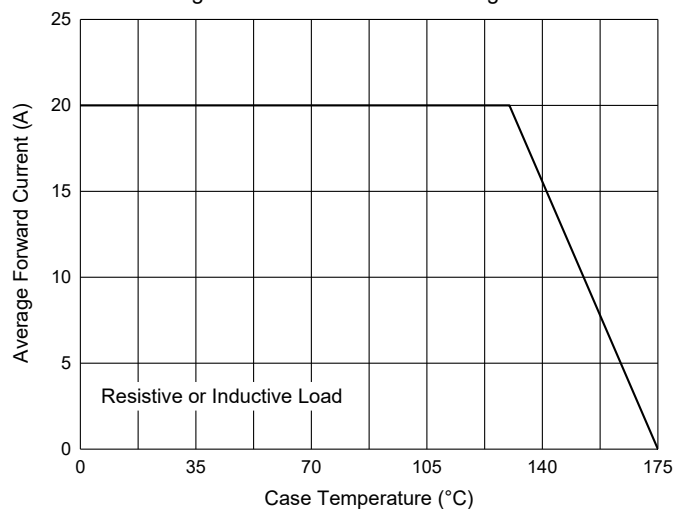


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

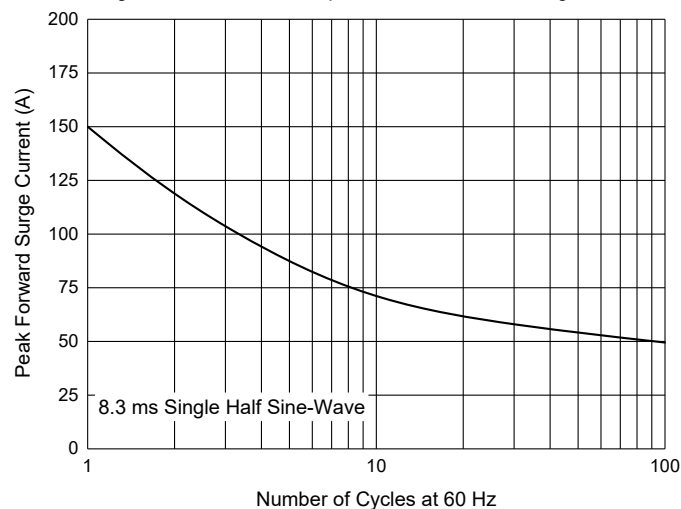


Fig. 3 - Typical Instantaneous Forward Characteristics

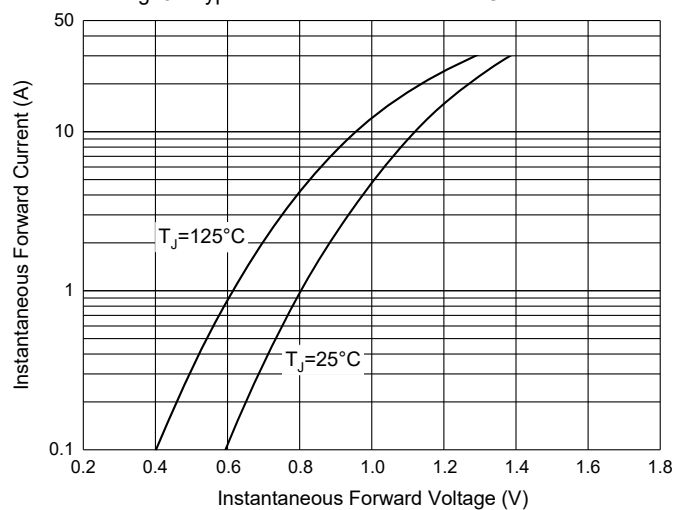
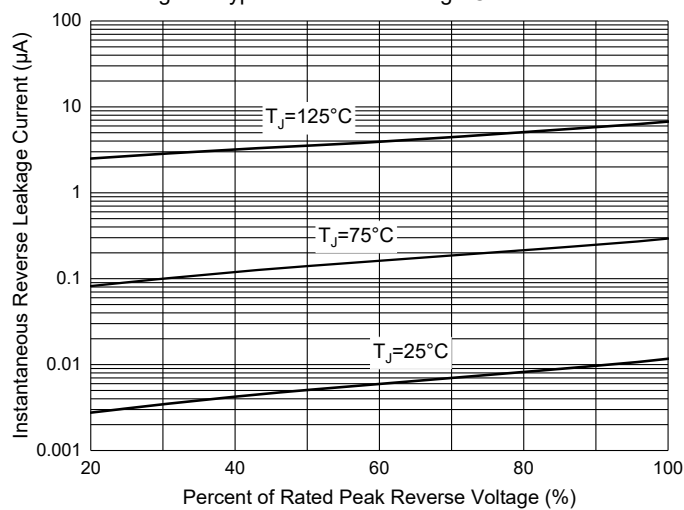


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Tube:50pcs/Tube, 1000pcs/Box,5K/Ctn;

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

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