

Schottky Barrier Rectifier multicomp^{PRO}

General Discription

This Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply applications

**RoHS
Compliant**



Feature

- Multi layer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability, High Efficiency.
- High Junction Temperature Capability.

Application

- Low Voltage High Frequency Switching Power Supply.
- Low Voltage High Frequency Inverse Circuit.
- Low Voltage Continued Circuit and Protection Circuit.

Absolute Maximum Ratings (Ta = 25°C Unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximal Inverted Repetitive Peak Voltage	V _{RRM}	150	V
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{FAV}	10	A
Forward Peak Surge Current(Rated Load 8.3 Half Sine Wave According to JEDEC Method	I _{FSM}	290 × 1	
Operating Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-40 to +150	
Typical Thermal Resistance(per leg)	R _{θJC}	2	°C/W

Electrical Characteristics at (Ta = 25°C Unless otherwise specified)

Parameter	Symbol	Test Condition		Value			Unit
				MIN	TYP	MAX	
BreakdownVoltage	V _B	I _R =1mA	T _J =25°C	150	-	-	V
Maximum instantaneous reverse current at rated blocking voltage	I _R	V _R =150V	T _J =25°C	-	0.01	10	mA
			T _J =125°C				
Maximum instantaneous forward voltage	V _F	I _F =10A (I _{FAV} =10A × 1)	T _J =25°C	-	0.82	0.9	V
			T _J =125°C		-	0.78	

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Typical Characteristic Curves

Fig 1: The forward voltage and forward current curve

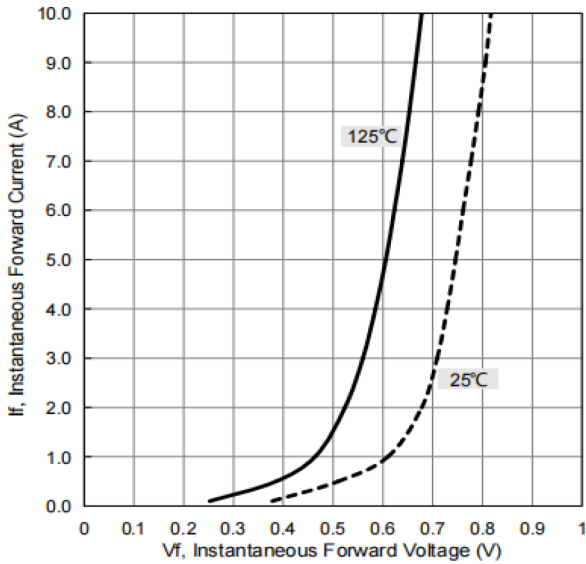


Fig 2: Current derating curve, per element

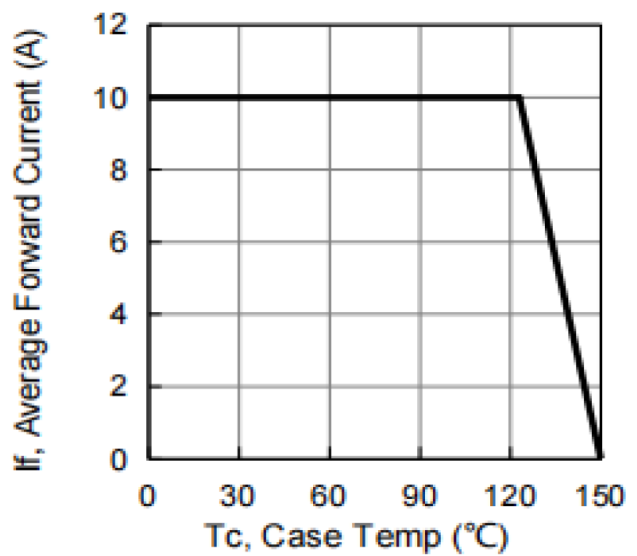
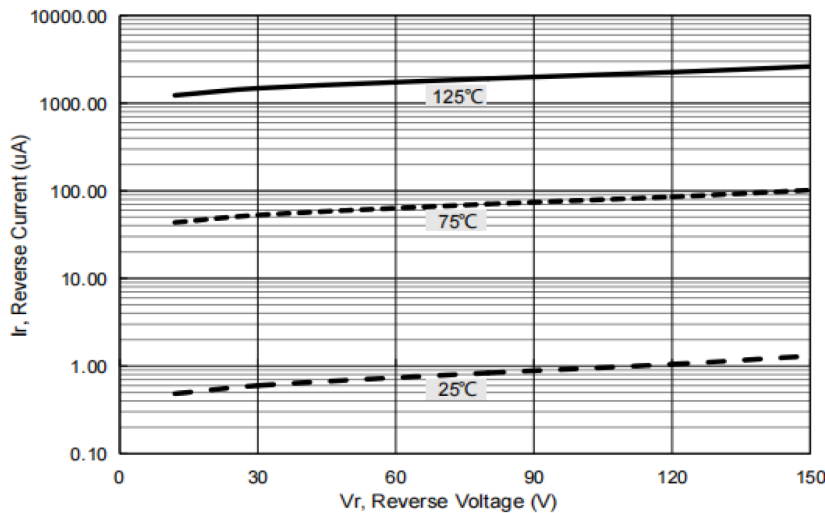


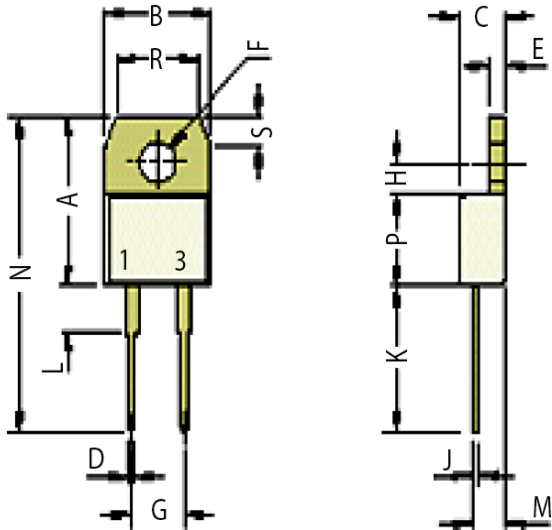
Fig 3: The reverse leak current and the reverse voltage (single-device) curve.



CHANGZHOU GUANGDA ELECTRONICS CO.,LTD

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Product Dimensions



DIM	Min	Max
A	13.4	14.2
B	9.91	10.41
C	4.4	4.7
D	0.68	0.94
E	1.14	1.39
F	3.74	3.91
G	4.95	5.2
H	3.43	3.68
J	0.35	0.58
K	13.48	14.22
L	3.55	4.05
M	2.54	2.79
N	28.4	29.16
P	8.38	8.89
R	-	10.54
S	2.82	2.87

Dimensions : Millimetres

Part Number Table

Description	Part Number
Schottky Rectifier, 150V, 10A, Single, TO-220AC	MP008483

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