DACO®

SR30200PT

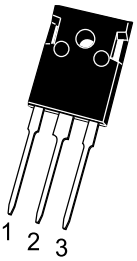
SCHOTTKY BARRIER RECTIFIER

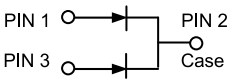
Features

- Multilayer Metal -Silicon Potential Structure.
- Low Leakage Current.
- High Current Capability.
- High Efficiency.
- High Junction Temperature Capability.
- RoHs Product.

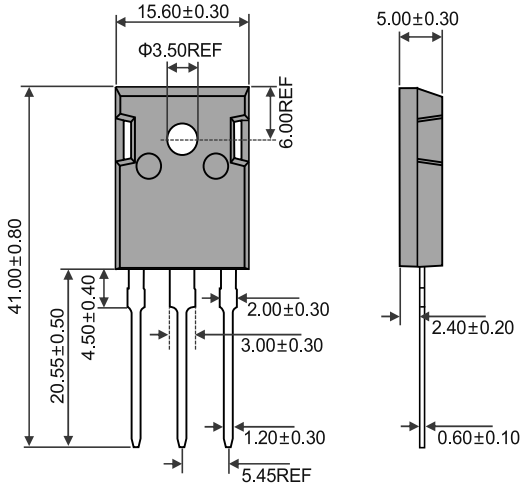
Primary Use

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





TO-247-AB



Absolute Maximum Ratings

Item		Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage		V_{RRM}	200	V
Average Rectified Forward Current(Rated VR-20Khz Square Wave)-50% duty cycle	Per Device	I_{FAV}	30	A
	Per Diode		15	
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	Per Diode	I_{FSM}	250	A
Operating Junction Temperature		T_J	-40～150	℃
Storage Temperature		T_{STG}	-40～150	℃
Typical Thermal Resistance(per leg)	Package=TO-247AB	$R_{\theta JC}$	0.5	℃/W

Electricity Character Per Diode(T_J = 25°C unless otherwise specified)

Item	Test Condition		Value(min)	Value(typ)	Value(max)	Unit
V_B	TJ =25℃	IR=1mA	200	—	—	V
I_R	TJ =25℃	VR=200V	—	—	0.01	mA
	TJ =125℃	VR=200V	—	—	10.00	mA
V_F	TJ =25℃	IF=15A	—	0.89	1.00	V
	TJ =125℃	IF=15A	—	—	0.85	V

Figure.1 - Typical Forward Characteristics

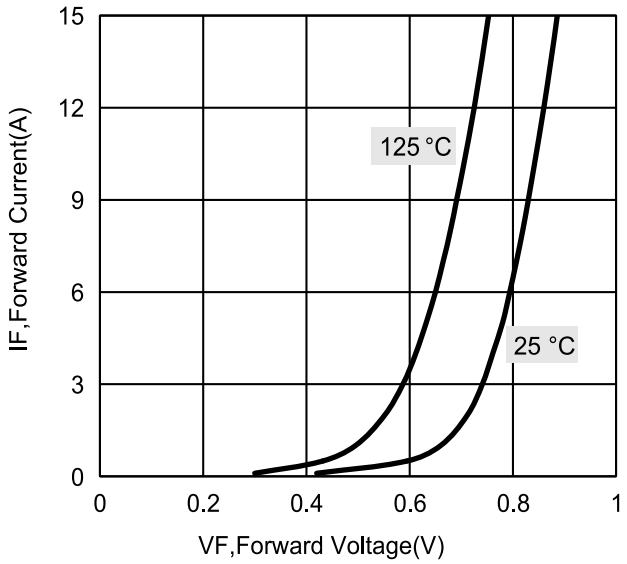


Figure.2 - Typical Current Derating Curve,Perelement

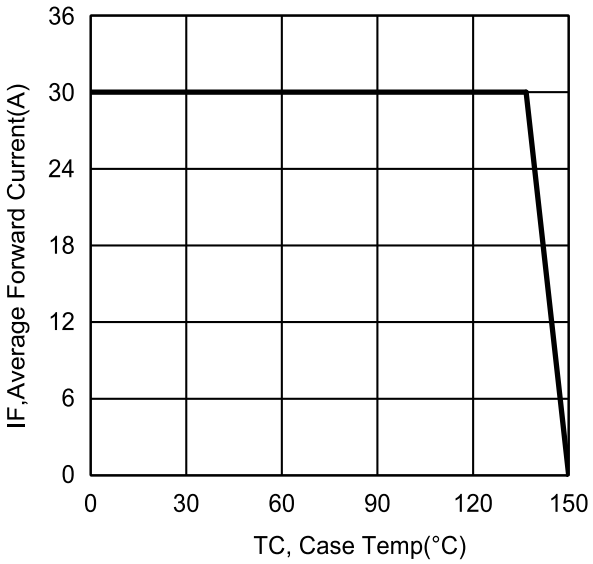


Figure.3 - Typical Junction Capacitance and Reverse Voltage

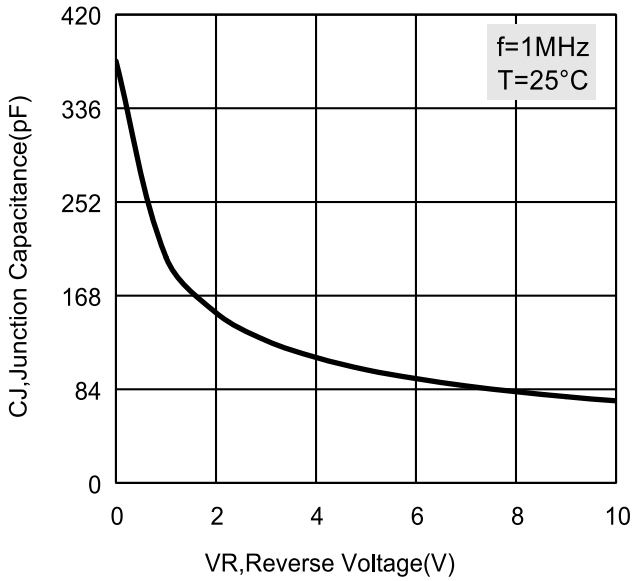
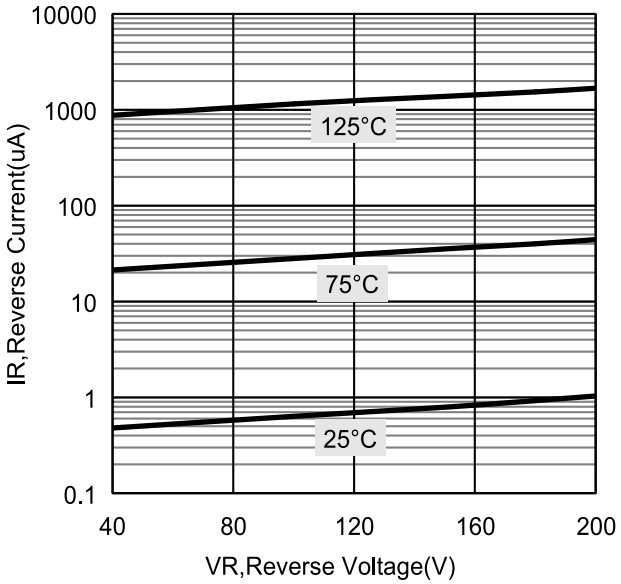


Figure.4 - Typical Reverse Current and Reverse Voltage



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