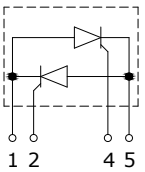
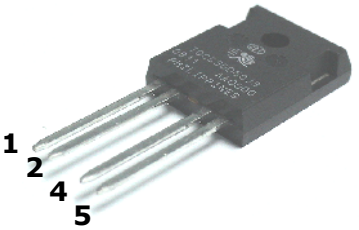
Silicon Controlled Rectifier, 1200/ 20A
In Isolated TO247 Package

- Pb-free lead finish; RoHS compliant





MAXIMUM RATINGS (per SCR), at T_j = 25°C, unless otherwise specified

Parameter	Symbol	Value	Units
Average on-state current T_C= 85°C, T_j= 125°C	$I_{T(AV)}$	20	A
Non-repetitive surge peak on-state current T_j= 125°C, t_p = 10 ms	I_{TSM}	340	
I^2t value for fusing T_j= 125°C, t_p = 10 ms	I^2t	574	A^2s
Rate of rise of on-state current T_j= 125°C	dI/dt	200	A/µs
Peak gate current T_j= 125°C	I_{GM}	2	A
Maximum repetitive peak off-state voltage IR = 100uA	V_{DRM}	1200	V
Maximum repetitive reverse voltage IR = 100uA	V_{RRM}	1200	
Operating junction and storage temperature	T_j, T_{stg}	-40… +125	°C

Thermal and Isolation Characteristics (per SCR)

Parameter	Symbol	Max. Value	Units
Characteristics			
Thermal resistance, junction to case	R_{thJC}	1.0	K/W
Thermal resistance, junction to ambient	R_{thJA}	40	
Isolation voltage, RMS (measured between terminals and case)	V_{iso}	2500	V

Electrical Characteristics (per SCR), at T_j = 25°C, unless otherwise specified

Symbol	Test Conditions	Value			Unit
		Min.	Typ.	Max.	
I_{GT}	Anode supply = 6V	-	60	-	mA
V_{GT}		-	1.3	-	V
V_{GD}	T_j= 125°C	-	0.25	-	
I_{GD}		-	2.0	-	mA
I_H	T_j= 125°C, Anode supply = 6V	-	125	-	
I_L		-	180	-	
dV/dt	T_j= 125°C	-	200	-	V/µs
V_{TM}	I_F= 30A	-	1.3	-	V
V_{TO}	T_j= 125°C	-	1.03	-	
R_t		-	10.5	-	mΩ
t_q		-	100	-	µs

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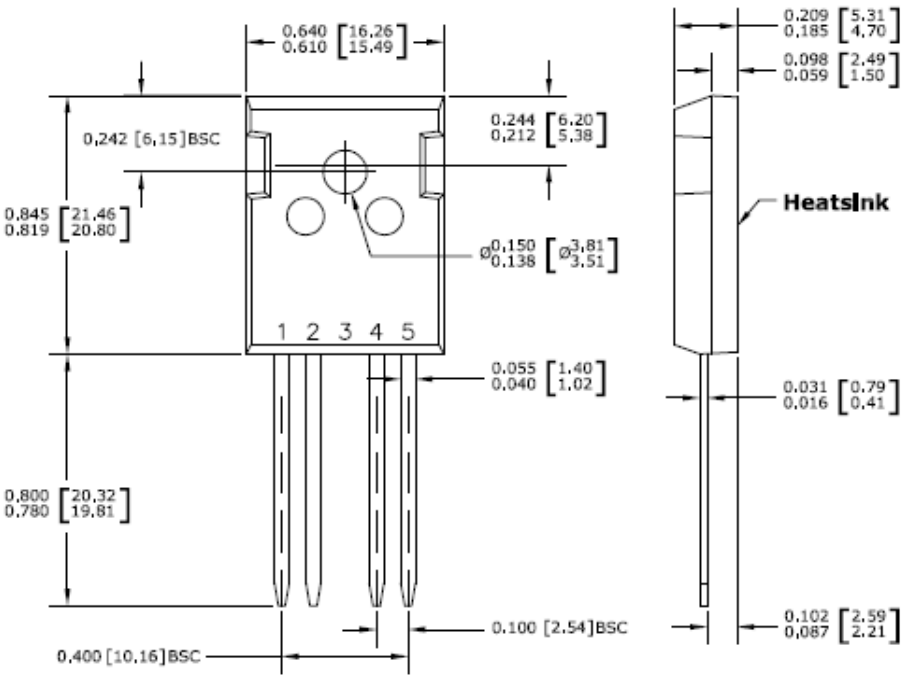
Website: www.iqxprzpower.com
Telefax +632 837 1538

Package Outline Drawing



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