

SRF2040HCT-HAF

Schottky Barrier Rectifier

Reverse Voltage - 40 V

Forward Current - 20 A

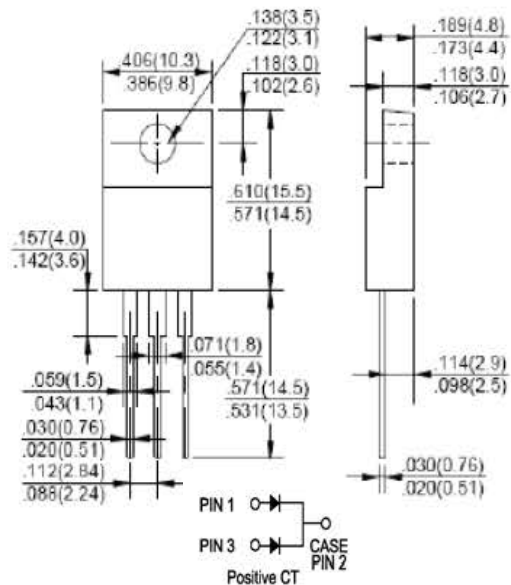
Features

- Low power loss, High efficiency
- High capability
- High current capability
- High surge capacity
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

- **Case:** ITO-220, molded plastic body
- **Terminals:** Solderable per MIL-STD-202, Method 208 guaranteed
- **Polarity:** As marked
- **Mounting position:** Any

ITO-220



Dimensions in millimeters

Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	SRF2040HCT	Units
	Marking	SRF2040HCT	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	200	A
Maximum Forward Voltage at $I_F = 10$ A	V_F	0.52	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	1 50	mA
Typical Junction Capacitance ¹⁾	C_J	315	pF
Thermal Resistance - Junction to Case ²⁾	$R_{\theta JC}$	2	°C/W
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 50 to + 150	°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4.0 VDC

²⁾ Thermal Resistance from Junction to Case Per Leg

TOP DYNAMIC



ISO14001 : 2004 Certificate No. 121505007
 ISO 9001 : 2008 Certificate No. 50114012
 OHSAS 18001 : 2007 Certificate No. 05131508008
 IECQ QC 080000 Certificate No. E2241000741822

Dated: 10/09/2016 H Rev: 01

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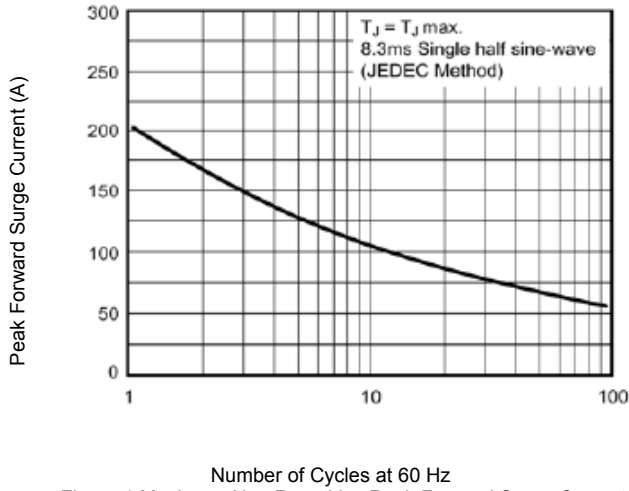


Figure 1. Maximum Non Repetitive Peak Forward Surge Current Per Leg

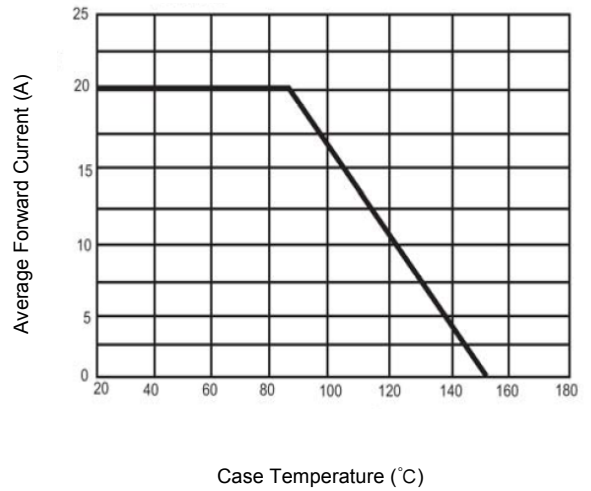


Figure 2. Maximum Forward Current Derating Curve

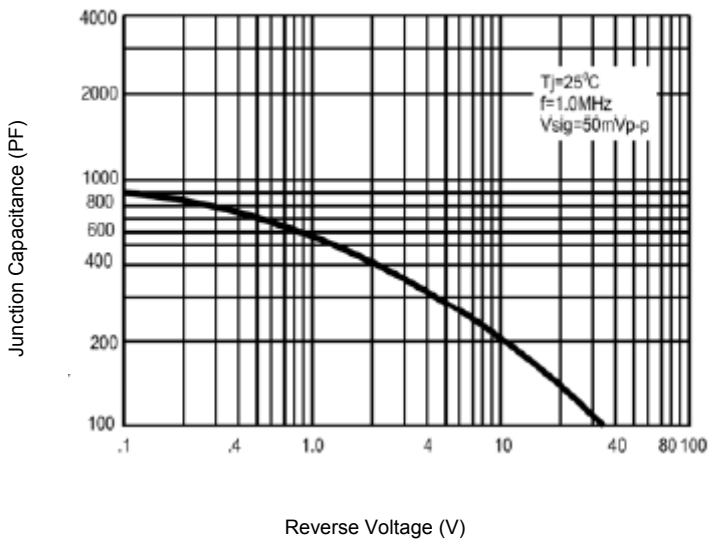


Figure 3. Typical Junction Capacitance Per Leg

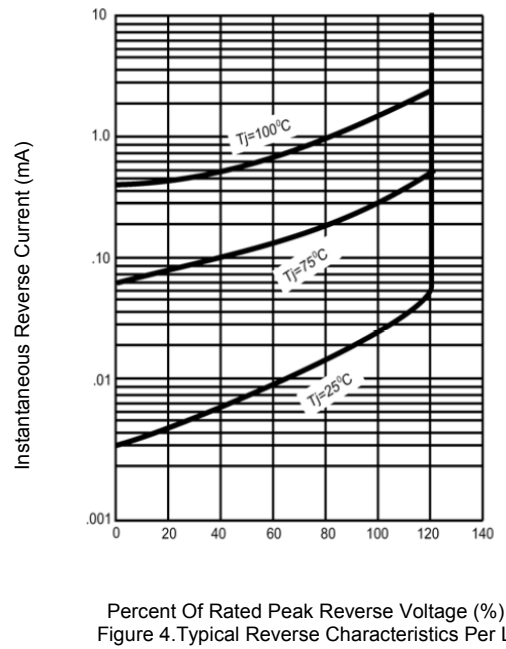


Figure 4. Typical Reverse Characteristics Per Leg

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