SRF2040HCT

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

Mechanical Data

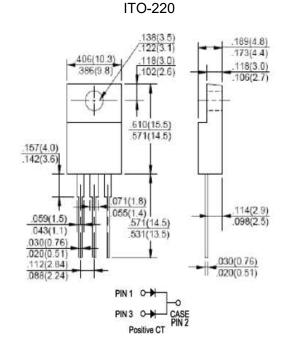
· Case: ITO-220, molded plastic body

• Terminals: Solderable per MIL-STD-202,

Method 208 guranteed

Polarity: As marked

• Mounting position: Any



Dimensions in millimeters

Maximum Ratings and Characteristics

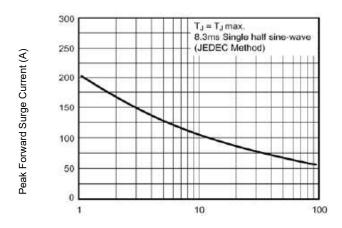
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

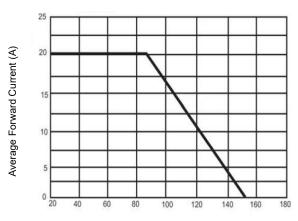
Parameter	Symbols	SRF2040HCT	Units
	Marking	SRF2040HCT	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	I _{F(AV)}	20	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimpos on Rated Load(JEDEC method)	I _{FSM}	200	А
Maximum Forward Voltage at I _F = 10 A	V _F	0.52	V
Maximum DC Reverse Current at $T_C = 25^{\circ}C$ at Rated DC Blocking Voltage at $T_C = 100^{\circ}C$	I _R	1 50	mA
Typical Junction Capacitance 1)	Сл	315	pF
Thermal Resistance - Junction to Case 2)	$R_{ heta JC}$	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



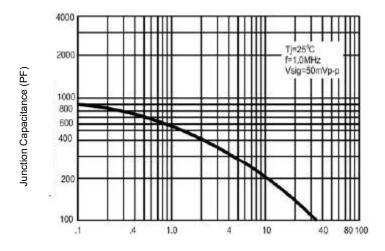
²⁾ Thermal Resistance from Junction to Case Per Leg



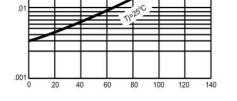


Number of Cycles at 60 Hz Figure 1.Maximum Non Repetitive Peak Forward Surge Current Per Leg

Case Temperature (°C)
Figure 2. Maximum Forward Current Derating Curve



Instantaneous Reverse Current (mA)



Reverse Voltage (V)
Figure 3.Typical Junction Capacitance Per Leg

Percent Of Rated Peak Reverse Voltage (%)
Figure 4.Typical Reverse Characteristics Per Leg

