SAMYANG ELECTRONICS

SRF2030CT---SRF2060CT

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 30 - 60 V
CURRENT: 20 A

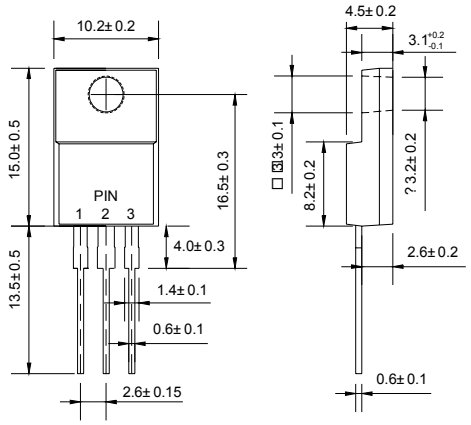
FEATURES

- ◇ High surge capacity.
- ◇ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ◇ Metal silicon junction, majority carrier conduction.
- ◇ High current capacity, low forward voltage drop.
- ◇ Guard ring for over voltage protection.

MECHANICAL DATA

- ◇ Case:JEDEC ITO-220AB,molded plastic body
- ◇ Terminals:Solderable per MIL-STD-750, Method 2026
- ◇ Polarity: As marked
- ◇ Position: Any
- ◇ Weight: 0.06 ounce, 1.67 grams

ITO-220AB



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60Hz,resistive or inductive load.For capactive load,derate current by 20%.

		SRF 2030CT	SRF 2035CT	SRF 2040CT	SRF 2045CT	SRF 2050CT	SRF 2060CT	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	30	35	40	45	50	60	V
Maximum RMS Voltage	V_{RMS}	21	25	28	32	35	42	V
Maximum DC blocking voltage	V_{DC}	30	35	40	45	50	60	V
Maximum average forw ard total device rectified current @T_C = 135°C	$I_{F(AV)}$	20						A
Peak forw ard surge current 8.3ms single half sine-w ave superimposed on rated load	I_{FSM}	150						A
Maximum forw ard voltage (Note 1) (I_F=10A,T_C=25 ℃) (I_F=10A,T_C=125 ℃) (I_F=20A,T_C=25℃) (I_F=20A,T_C=125℃)	V_F	- 0.57 0.84 0.72				0.80 0.70 0.95 0.85		V
Maximum reverse current @T_C=25℃	I_R	0.1				0.15		m A
at rated DC blocking voltage @T_C=125℃		15				150		
Maximum thermal resistance (Note2)	R_{JC}	2.0						℃/W
Operating junction temperature range	T_J	- 55 ---- + 150						℃
Storage temperature range	T_{STG}	- 55 ---- + 150						℃

NOTE: 1. Pulse test:300 s pulse width,1% duty cycle.
2. Thermal resistance from junction to case.

Download from alldatasheet.com

FIG.1 – PEAK FORWARD SURGE CURRENT

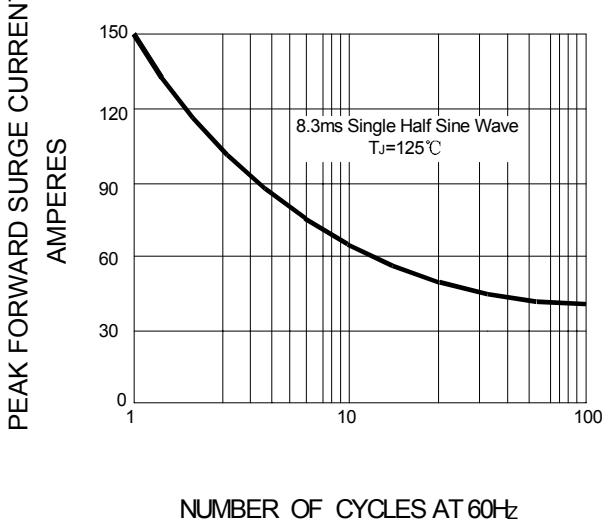


FIG.2 – FORWARD DERATING CURVE

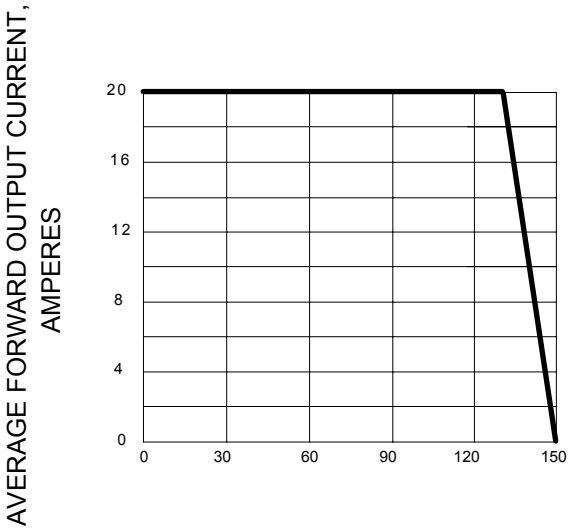


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

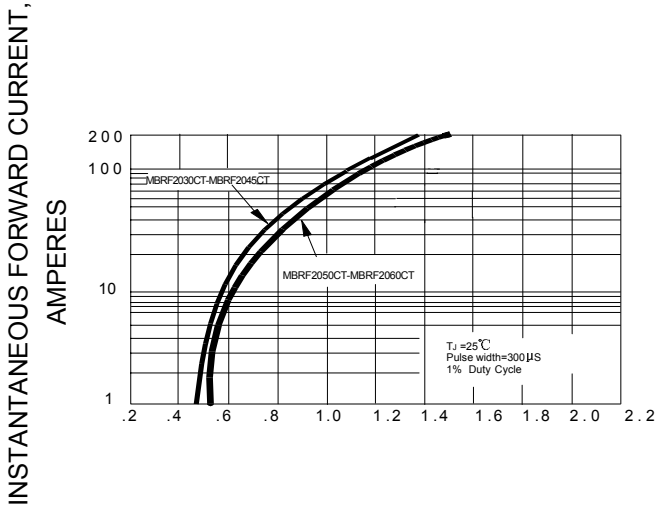
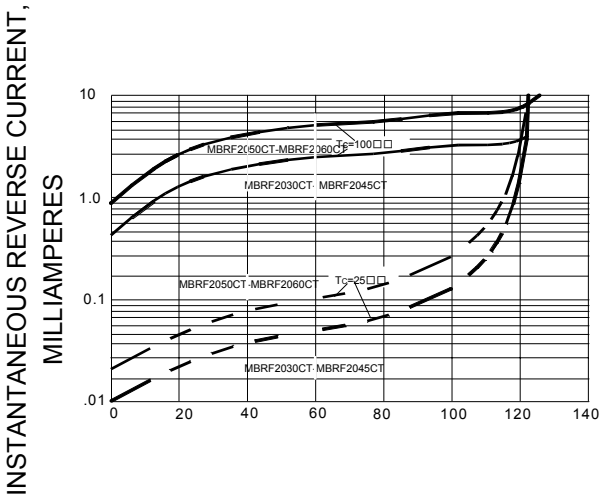


FIG.4 – TYPICAL REVERSE CHARACTERISTIC



Download from alldatasheet.com