Elektronische Bauelemente

SP16150

VOLTAGE 150V

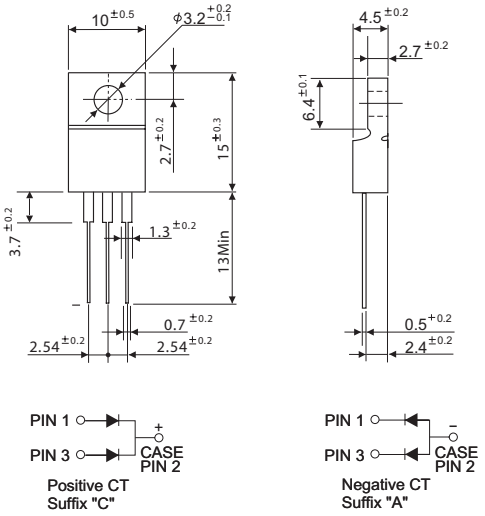
16.0AMP Schottky Barrier Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free



TO-220F15



Dimensions in millimeters

FEATURES

* Low forward voltage drop
* High current capability
* High reliability
* High surge current capability
* Epitaxial construction

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
* Polarity: As Marked
* Mounting position: Any
* Weight: 2.24 grams(Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SP16150	UNITS
Maximum Recurrent Peak Reverse Voltage	150	V
Working Peak Reverse Voltage	150	V
Maximum DC Blocking Voltage	150	V
Maximum Average Forward Rectified Current See Fig. 1	16	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	180	A
Maximum Instantaneous Forward Voltage (I_F= 8 Amps,T ≒ 25 ℃)	0.86	V
Maximum Instantaneous Forward Voltage (I_F= 8 Amps,T ≒ 125 ℃)	0.72	
Maximum DC Reverse Current Ta=25℃	0.02	mA
at Rated DC Blocking Voltage Ta=125℃	10	mA
Typical Junction Capacitance (Note1)	350	pF
Typical Thermal Resistance RθJC (Note 2)	2.0	℃/W
Operating Temperature Range T_J	-50 ～+150	℃
Storage Temperature Range T_{STG}	-65 ～+175	℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.

2. Thermal Resistance Junction to Case.

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RATING AND CHARACTERISTIC CURVES (SP16150)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

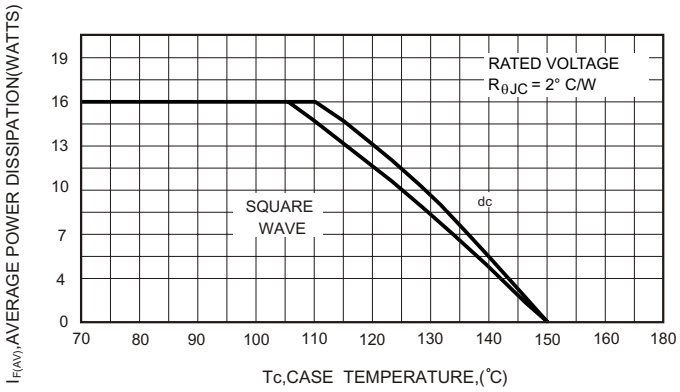


FIG.2- TYPICAL FORWARD VOLTAGE (PER LEG)

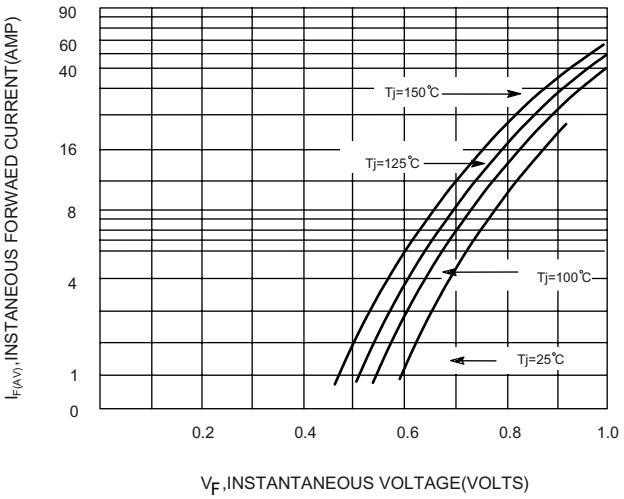


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

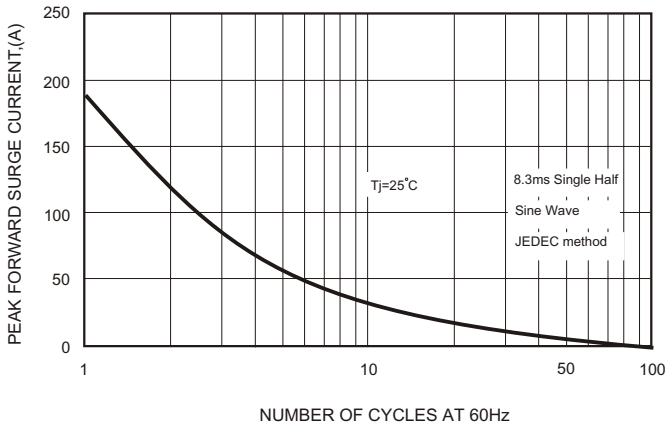


FIG.5-TYPICAL REVERSE CURRENT(PER LEG)

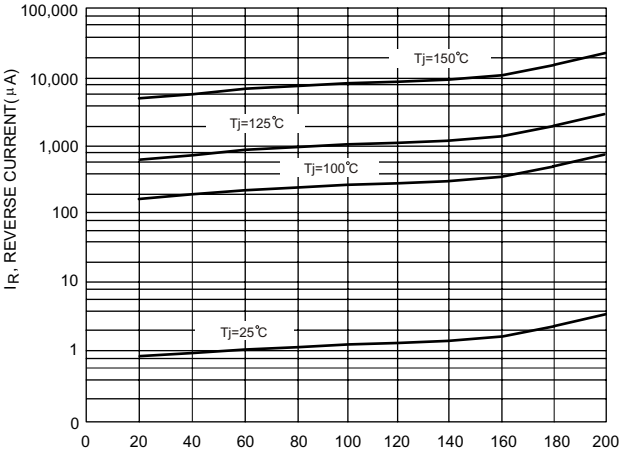


FIG.4-TYPICAL JUNCTION CAPACITANCE

