Elektronische Bauelemente

SP1045

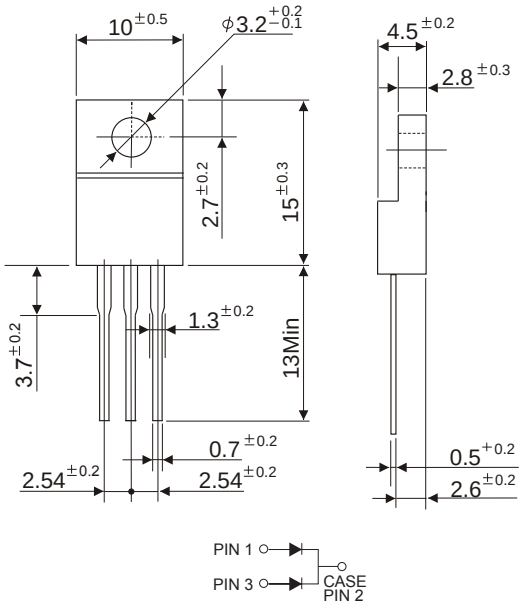
VOLTAGE 45V
10.0AMP Schottky Barrier Rectifiers

RoHS Compliant Product

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



ITO-220



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

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	SP1045	UNITS
Maximum Recurrent Peak Reverse Voltage	45	V
Working Peak Reverse Voltage	45	V
Maximum DC Blocking Voltage	45	V
Maximum Average Forward Rectified Current See Fig. 1	10	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150	A
Maximum Instantaneous Forward Voltage at 5.0A	0.55	V
Maximum DC Reverse Current Ta=25℃	0.3	mA
at Rated DC Blocking Voltage (Note3) Ta=100℃	45	mA
Typical Junction Capacitance (Note1)	700	pF
Typical Thermal Resistance RθJC (Note 2)	3.0	℃/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 4.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300us, Duty Cycle <= 2.0%.

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VOLTAGE 45V
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Typical Forward Current Derating Curve

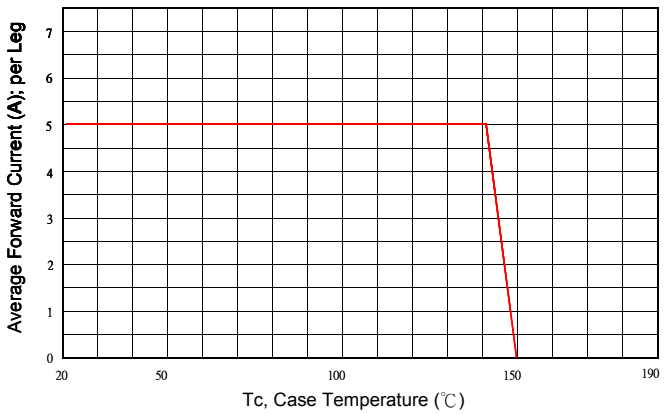


FIG.2-TYPICAL FORWARD CHARACTERISTICS

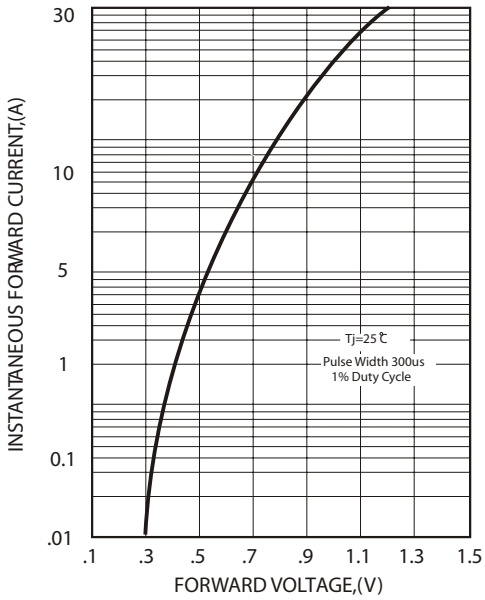


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

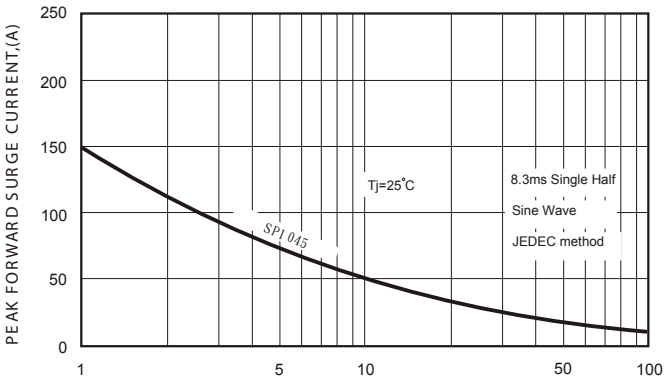


FIG.4-TYPICAL JUNCTION CAPACITANCE

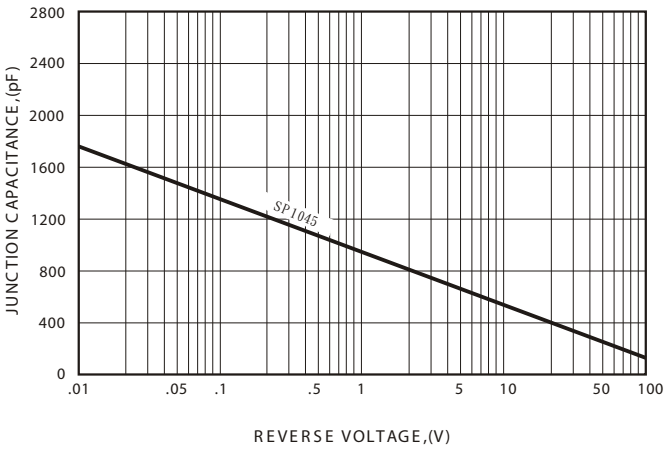


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

