Elektronische Bauelemente

SP2060

VOLTAGE 60V

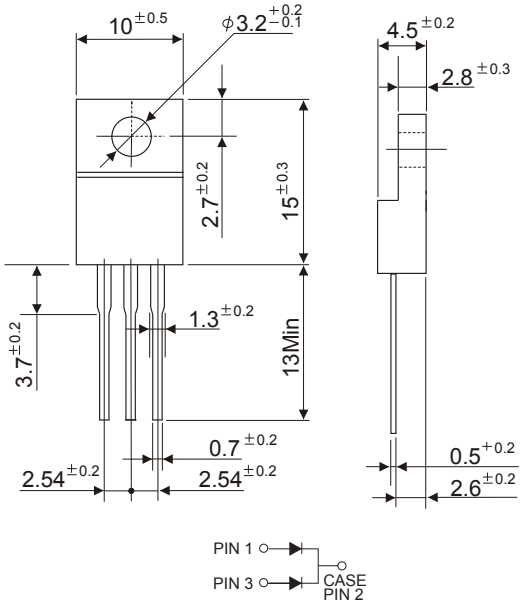
20.0AMP Schottky Barrier Rectifiers

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(Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SYMBOL	SP2060	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RSM}	60	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current (Per Leg) (Per Device)	I_F	10 20	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	180	A
Maximum Instantaneous Forward Voltage (I_F = 10Amps, T_a= 25°C, per leg) Maximum Instantaneous Forward Voltage (I_F =10 Amps, T_a= 125°C, per leg)	V_F	0.70 0.62	V
Maximum DC Reverse Current Ta=25°C at Rated DC Blocking Voltage (Note3) Ta=100°C	I_R	0.30 15	mA
Typical Junction Capacitance (Note1)	C_J	450	pF
Typical Thermal Resistance (Note 2)	$R\theta_{JC}$	4.0	°C/W
Voltage Rate Of Chance (Rated V_R)	dv/dt	10000	V/us
Operating Temperature Range	T_J	-50 ~ +150	°C
Storage Temperature Range	T_{STG}	-65 ~ +175	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300us, Duty Cycle <= 2.0%.

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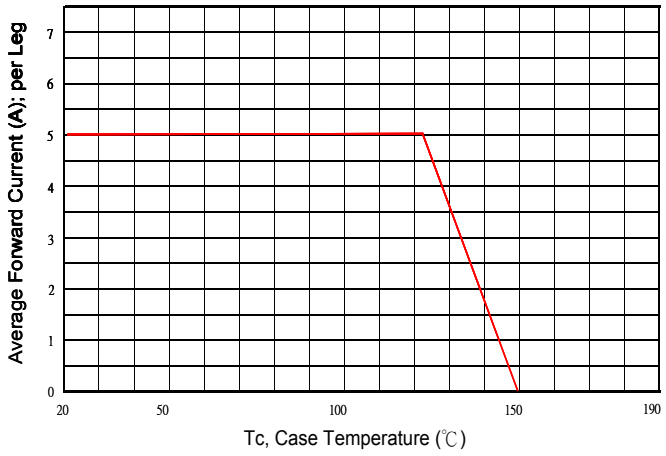
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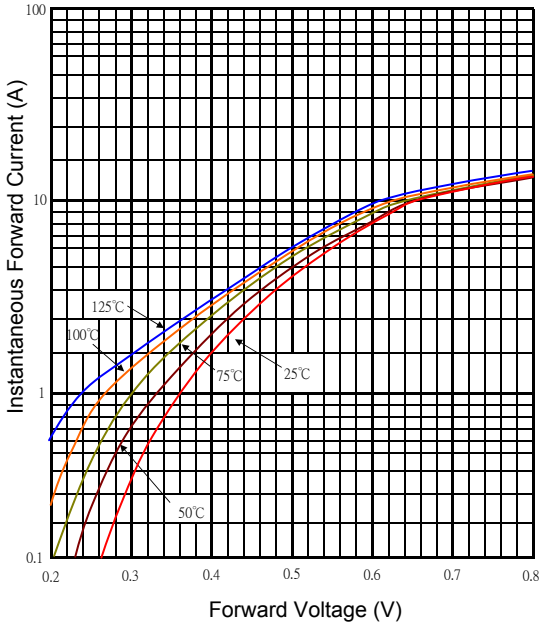
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RATING AND CHARACTERISTIC CURVES

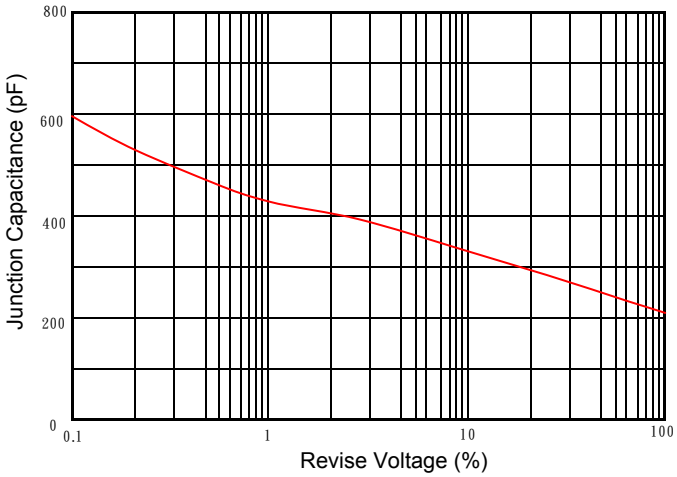
Typical Forward Current Derating Curve



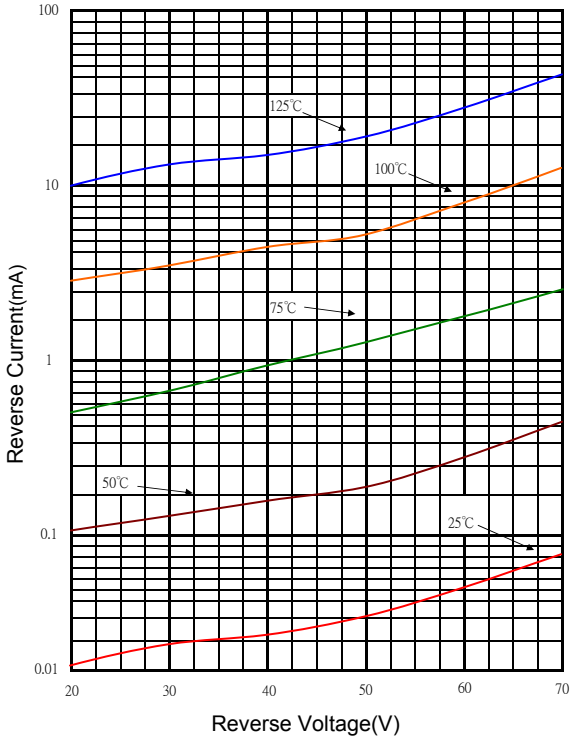
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

