Elektronische Bauelemente

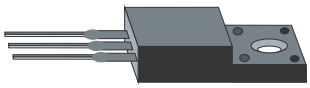
SP20150R

VOLTAGE 150 V

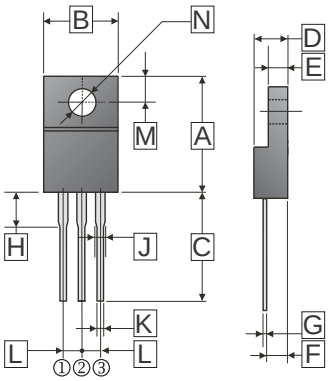
20.0 Amp Schottky Barrier Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen free



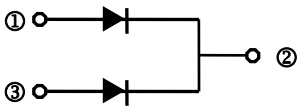
ITO-220



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	15.00	15.60	H	3.00	3.80
B	9.50	10.50	J	0.90	1.50
C	12.5Min		K	0.50	0.90
D	4.30	4.70	L	2.34	2.74
E	2.50	3.10	M	2.50	2.90
F	2.40	2.80	N	ϕ 3.1	ϕ 3.4
G	0.30	0.70			

FEATURES

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



MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-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, de-rate current by 20%.

TYPE NUMBER		SYMBOL	SP20150R	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	150	V
Working Peak Reverse Voltage		V_{RSM}	150	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current, See Fig. 1		I_F	20	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)		I_{FSM}	150	A
Maximum Instantaneous Forward Voltage	I_F=10Amps, T_A=25°C	V_F	0.86	V
	I_F=10Amps, T_A=125°C		0.73	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	T_A=25°C	I_R	0.02	mA
	T_A=125°C		5	
Typical Junction Capacitance (Note 1)		C_J	580	pF
Typical Thermal Resistance (Note 2)		$R_{\theta JC}$	5.0	°C /W
Operating Temperature Range T_J		T_J	-50~+150	°C
Storage Temperature Range T_{STG}		T_{STG}	-50~+150	°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 = 300 μs, Duty Cycle ≦ 2.0%.

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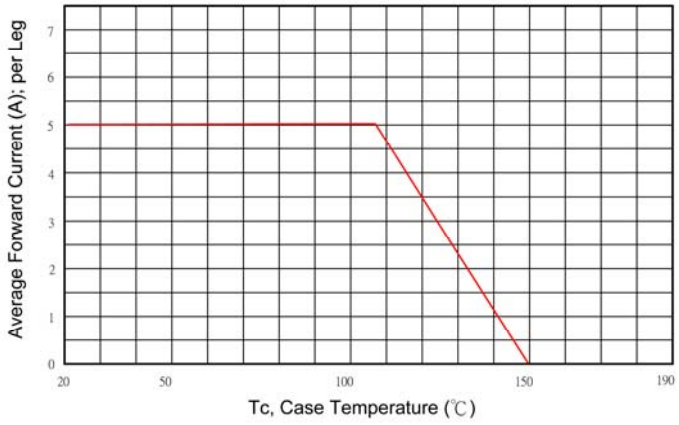
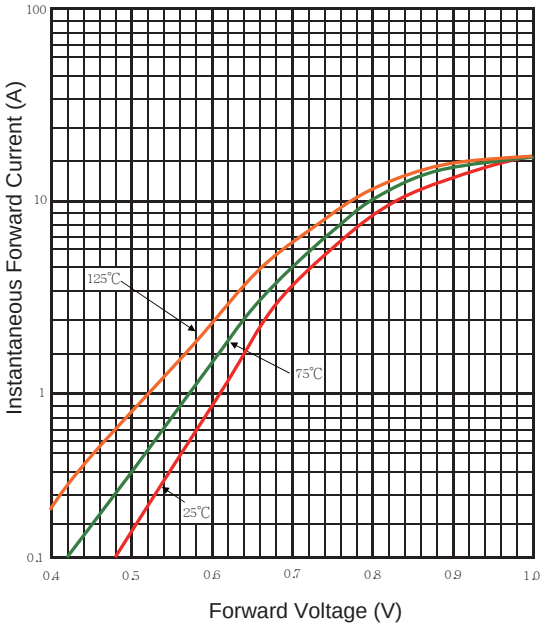
RATINGS AND CHARACTERISTIC CURVES

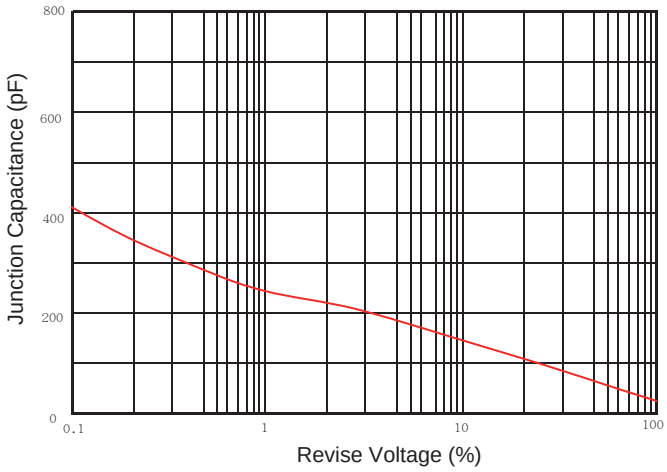
Typical Forward Current Derating Curve



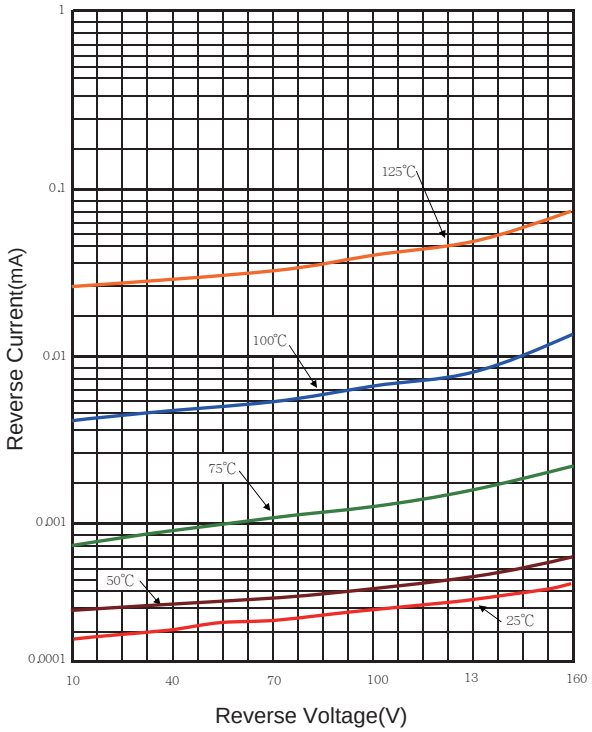
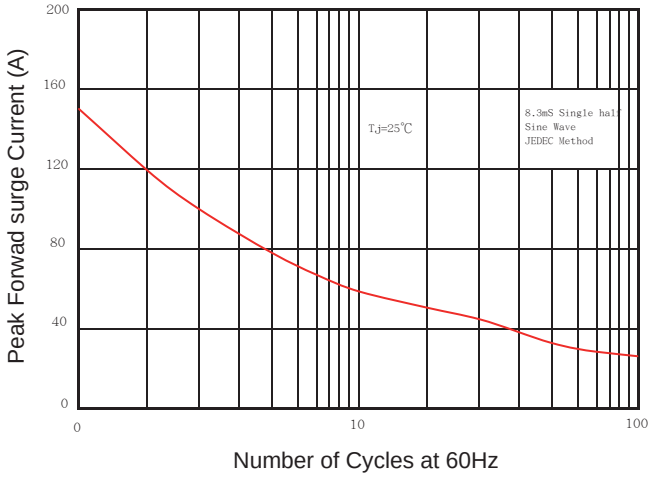
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current