Elektronische Bauelemente

SR1150

Voltage 150 V

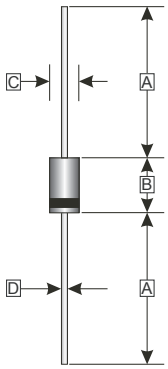
1.0 Amp Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Guard ring for overvoltage protection
- Very small conduction losses
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

DO-41



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	4.10	5.21
C	2.00	2.72
D	0.70	0.90

MECHANICAL DATA

- Cases: DO-41
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead free plating (Tin finish) Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 0.318 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%.)

Parameter		Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	V
Maximum RMS Voltage		V_{RMS}	105	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current		I_F	1	A
Peak Forward Current @ 8.3 ms Half Sine		I_{FSM}	30	A
Maximum Instantaneous Forward Voltage @ 1.0A		V_F	0.87	V
Maximum DC Reverse Current at Rated DC Blocking Voltage [3]	T_A=25°C	I_R	0.2	mA
	T_A=100°C		2	
Typical Junction Capacitance [1]		C_J	30	pF
Typical Thermal Resistance [2]		$R_{\theta JA}$	70	°C/W
Operating & Storage Temperature		T_J , T_{STG}	-55~150	°C

Notes:

1. Measured at 1MHz and applied reverse voltage of 5.0 V D.C.
2. Thermal Resistance Junction to Ambient.
3. Pulse test: 300us pulse width, 1% duty cycle

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

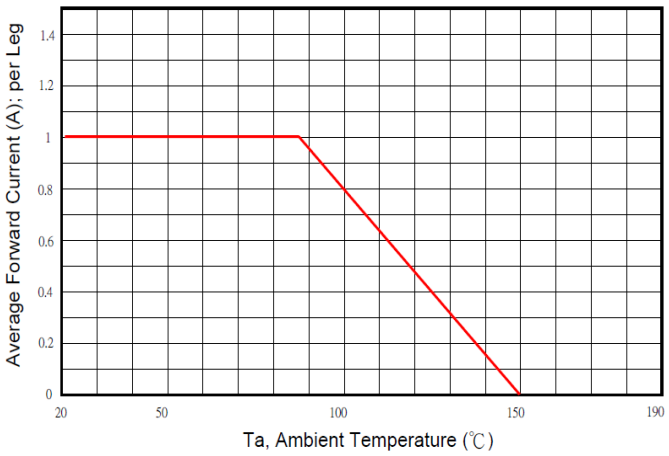

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

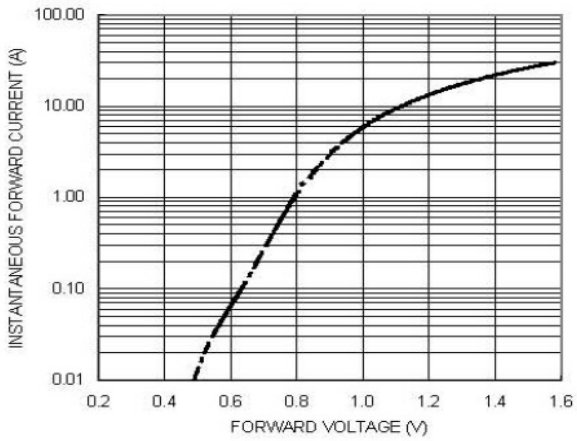

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

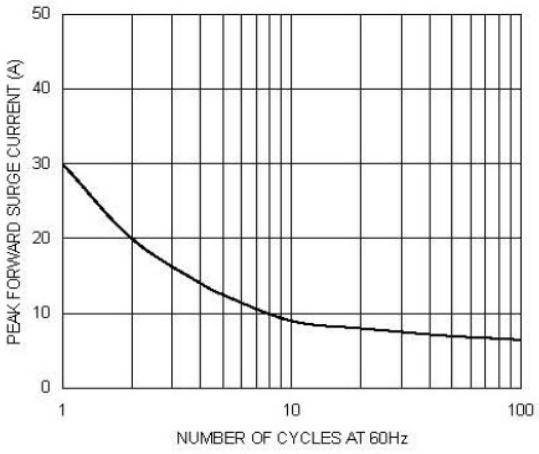

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

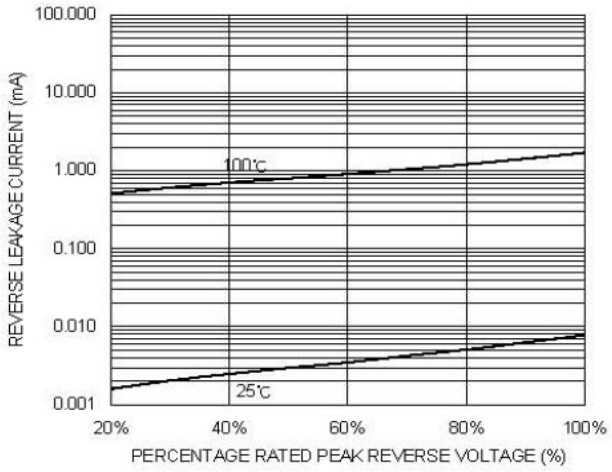

FIG. 5-TYPICAL JUNCTION CAPACITANCE