Elektronische Bauelemente

SR220~SR2100

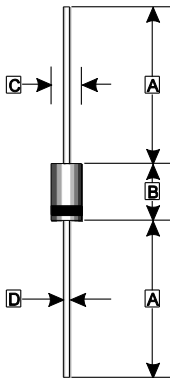
2A, 20~100V
Schottky Barrier Rectifiers

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

FEATURES

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Plastic Material-UL Flammability 94V-0

DO-15



APPLICATIONS

- Case: Molded Plastic
- Terminals: Plated leads Solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any

ORDER INFORMATION

Part Number	Type
SR220~SR2100	Lead (Pb)-free
SR220-C~SR2100-C	Lead (Pb)-free and Halogen-free

REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	5.80	7.60
C	2.60	3.60
D	0.70	0.90

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	Part Number				Units
			SR220	SR240	SR260	SR2100	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	40	60	100	V
Maximum RMS Voltage		V_{RMS}	14	26	42	80	
Maximum DC Blocking Voltage		V_{DC}	20	40	60	100	
Average Rectified Output Current [1] @T_L=100°C		$I_{F(AV)}$	2				A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	60				A
Forward Voltage @I_F=2A		V_F	0.55		0.7	0.85	V
DC Reverse Current At Rated DC Blocking Voltage	T_A=25°C	I_R	0.1			0.05	mA
	T_A=100°C		10			5	
Typical Junction Capacitance		C_J	80			40	pF
Typical Thermal Resistance from Junction-Ambient		$R_{\theta JA}$	75				°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150				°C

Note:
1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

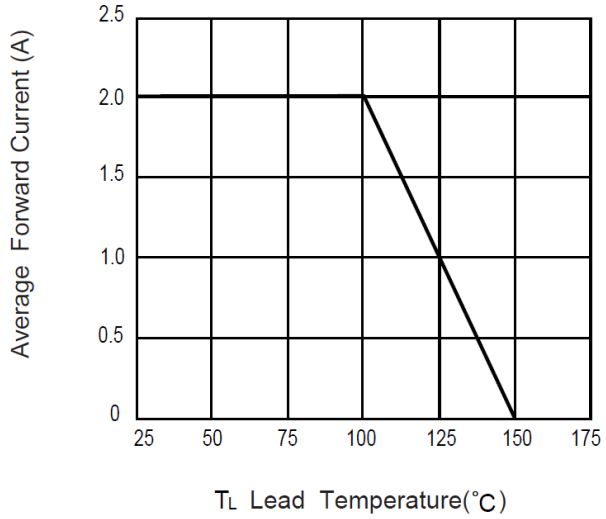

Fig. 2 Typ. Forward Characteristics

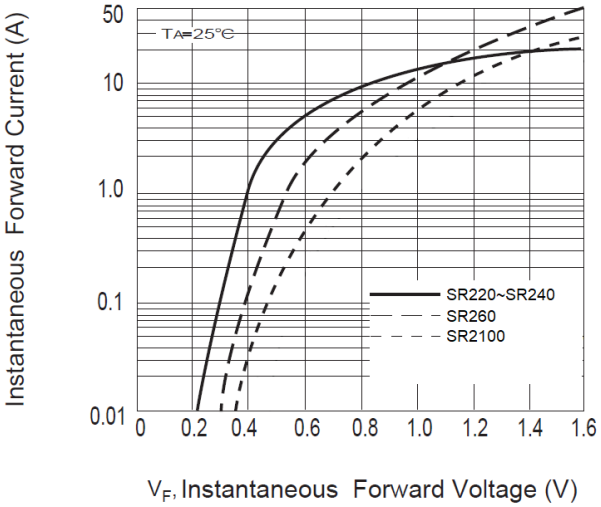

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

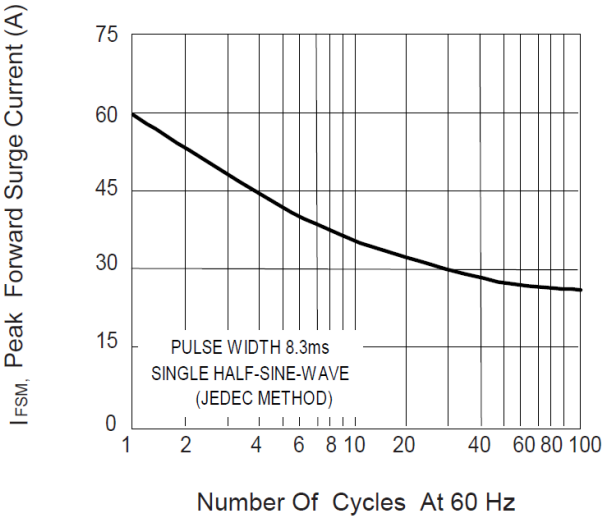

Fig.4 Typical Reverse Chracteristics (per element)