

SR220 - SR2100

PRV : 20 - 100 Volts
I_o : 2.0 Amperes

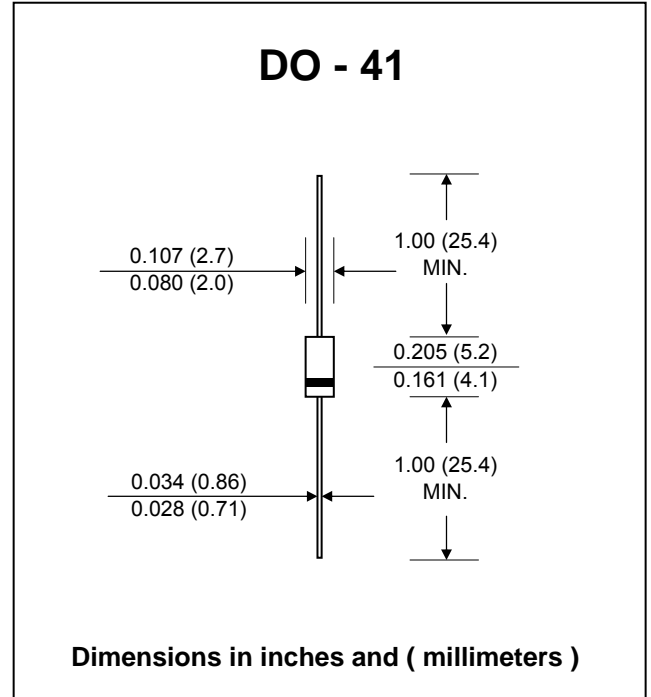
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-41 Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.335 gram

SCHOTTKY BARRIER RECTIFIER DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	SR220	SR230	SR240	SR250	SR260	SR290	SR2100	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum Average Forward Current	$I_{F(AV)}$	2.0							
Maximum Peak Forward Surge Current, (1 cycle 8.3 ms)	I_{FSM}	50							A
Maximum Forward Voltage at $I_F = 2.0$ A	V_F	0.55		0.70		0.85		V	
Maximum Reverse Current at $T_a = 25$ °C	I_R	2							mA
Rated DC Blocking Voltage $T_a = 100$ °C	$I_{R(H)}$	20							
Typical Junction Capacitance ($V_R = 4$ V, $f = 1$ MHz)	C_J	170							pF
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	20							°C/W
Junction Temperature Range	T_J	- 55 to + 125			- 55 to + 150				°C
Storage Temperature Range	T_{STG}	- 55 to + 150							°C

RATING AND CHARACTERISTIC CURVES (SR220 - SR2100)

FIG.1 - FORWARD CURRENT DERATING CURVE

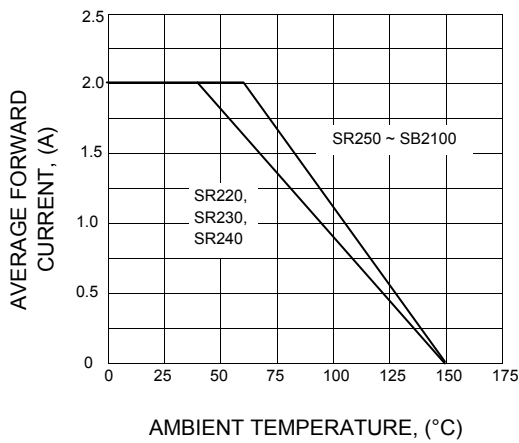


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

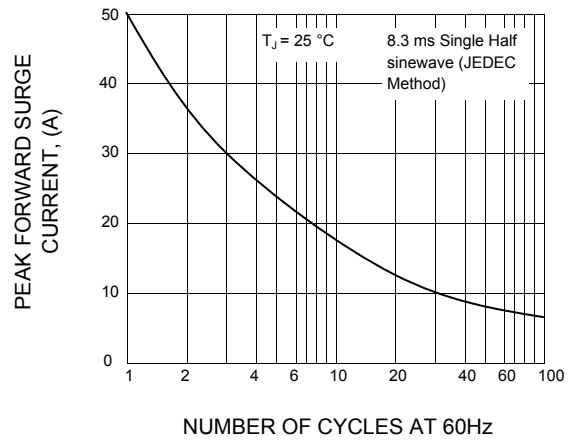


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

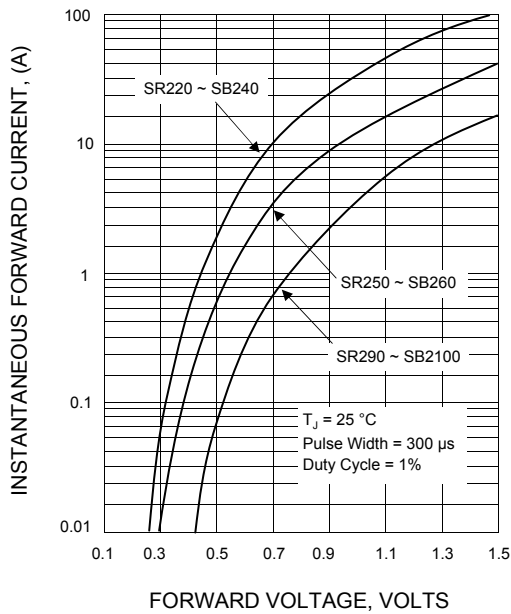


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

