

SR202 THRU SR20A

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

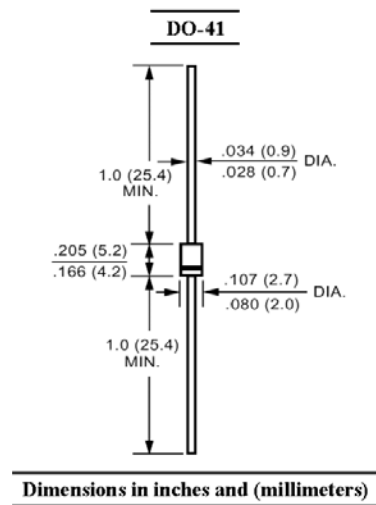
Forward Current - 2 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, High efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications

Mechanical Data

- **Case:** Molded plastic body, DO-41.
- **Terminals:** Axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end.
- **Mounting Position:** Any



Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	SR202	SR203	SR204	SR205	SR206	SR208	SR20A	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage at 2 A ¹⁾	V_F	0.55		0.7		0.85		V	
Maximum Reverse Current at Rated Reverse Voltage $T_A = 25\text{ °C}$ $T_A = 100\text{ °C}$	I_R	0.5					0.1		mA
		10		5		-			
Thermal Resistance, Junction to Case	$R_{\theta JC}$	14							°C/W
Thermal Resistance Junction to Lead	$R_{\theta JL}$	21.7							°C/W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	75							°C/W
Operating Junction Temperature Range	T_j	- 55 to +125			- 55 to +150				°C
Storage Temperature Range	T_{stg}	- 55 to +150							°C

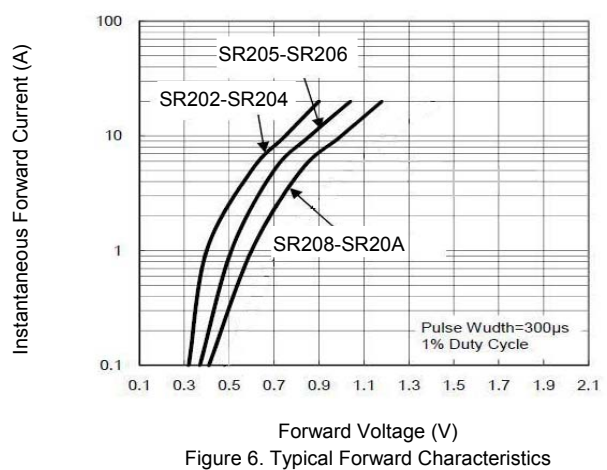
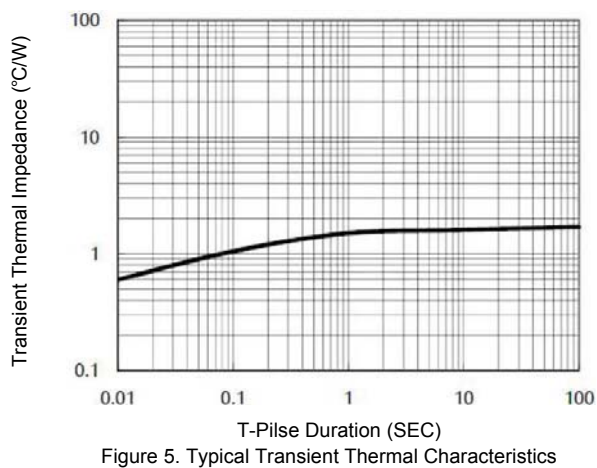
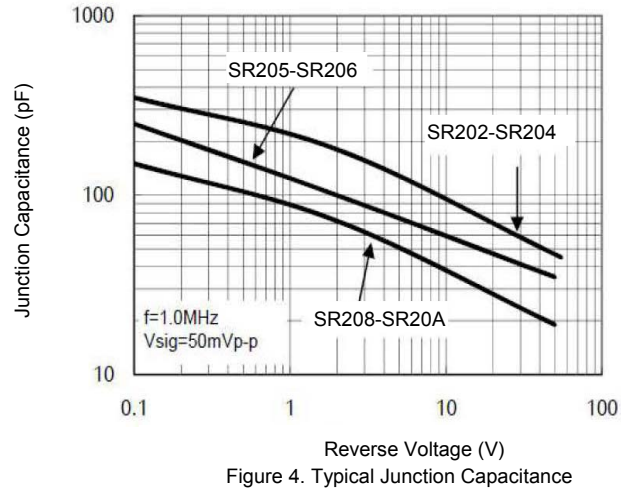
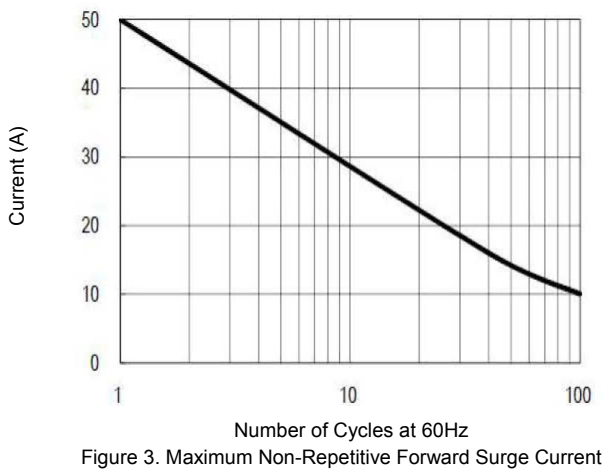
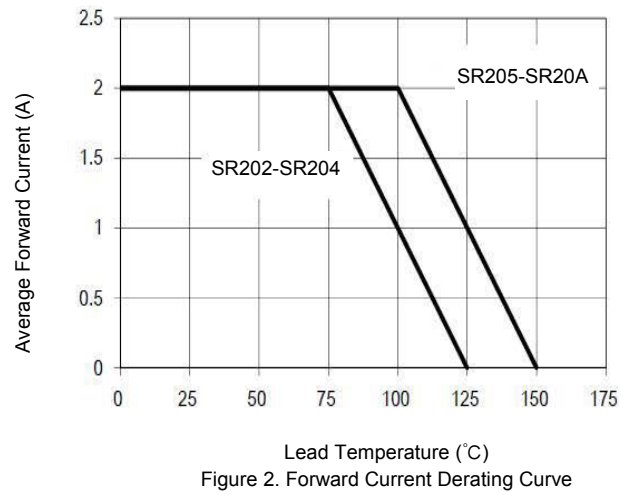
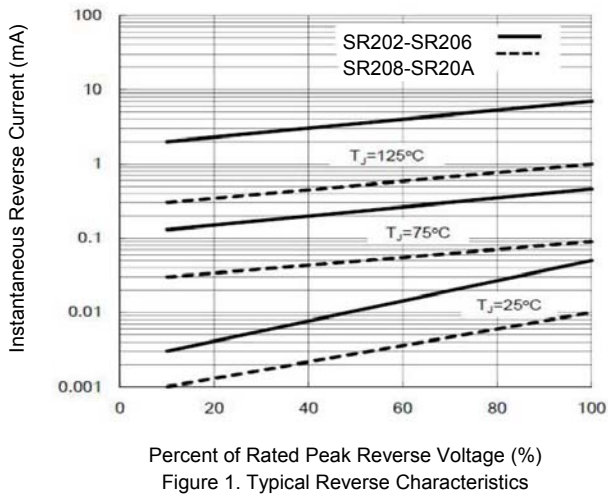
¹⁾ Pulse test: $t_p=300\mu S$, 1% duty cycle

TOP DYNAMIC



Dated : 07/07/2016 GD Rev: 02

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