




2.0 Amp. Schottky Barrier Rectifier

 <p>DO-204AC (DO-15)</p>	Voltage 20 V to 150 V	Current 2.0 A	
	FEATURES <ul style="list-style-type: none"> • Low power losses, high efficiency • High surge current capability • High frequency operation • Guarding for overvoltage protection • Low forward voltage drop • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC • Halogen-free available according to IEC 61249-2-21 definition 		  RoHS COMPLIANT <small>HALOGEN FREE</small>
	MECHANICAL DATA <ul style="list-style-type: none"> • Case: DO-204AC (DO-15). Epoxy meets UL 94V-0 flammability rating. • Polarity: Color band denotes cathode end. • Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test 		
	TYPICAL APPLICATIONS Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.		

Maximum Ratings and Electrical Characteristics at 25 °C

		SR202	SR204	SR206	SR210	SR215
Marking Code		SR202	SR204	SR206	SR210	SR215
Halogen Free Marking Code		SR202 HF	SR204 HF	SR206 HF	SR210 HF	SR215 HF
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	14	28	42	70	105
V_{DC}	Maximum DC Blocking Voltage (V)	20	40	60	100	150
$I_{F(AV)}$	Max. Average Forward Rectifier Current (See graphic)	2.0 A				
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	50 A				
C_j	Typical Junction Capacitance	120 pF		85 pF	65 pF	
T_j	Operating Temperature Range	-55°C to +150°C				
T_{stg}	Storage Temperature Range	-55°C to +150°C				

Electrical Characteristics at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage $I_F = 2.0 A$ (Note 1)	0.55 V	0.70 V	0.85 V	0.95 V
I_R	Maximum D.C. Reverse Current @ $T_j = 25^\circ C$ at Rated DC Blocking Voltage @ $T_j = 125^\circ C$ (Note 3)	0.5 mA		0.1 mA	
		15 mA	10 mA	2.0 mA	
$R_{th(j-a)}$	Typical Thermal Resistance (Note 2)	75 °C/W			

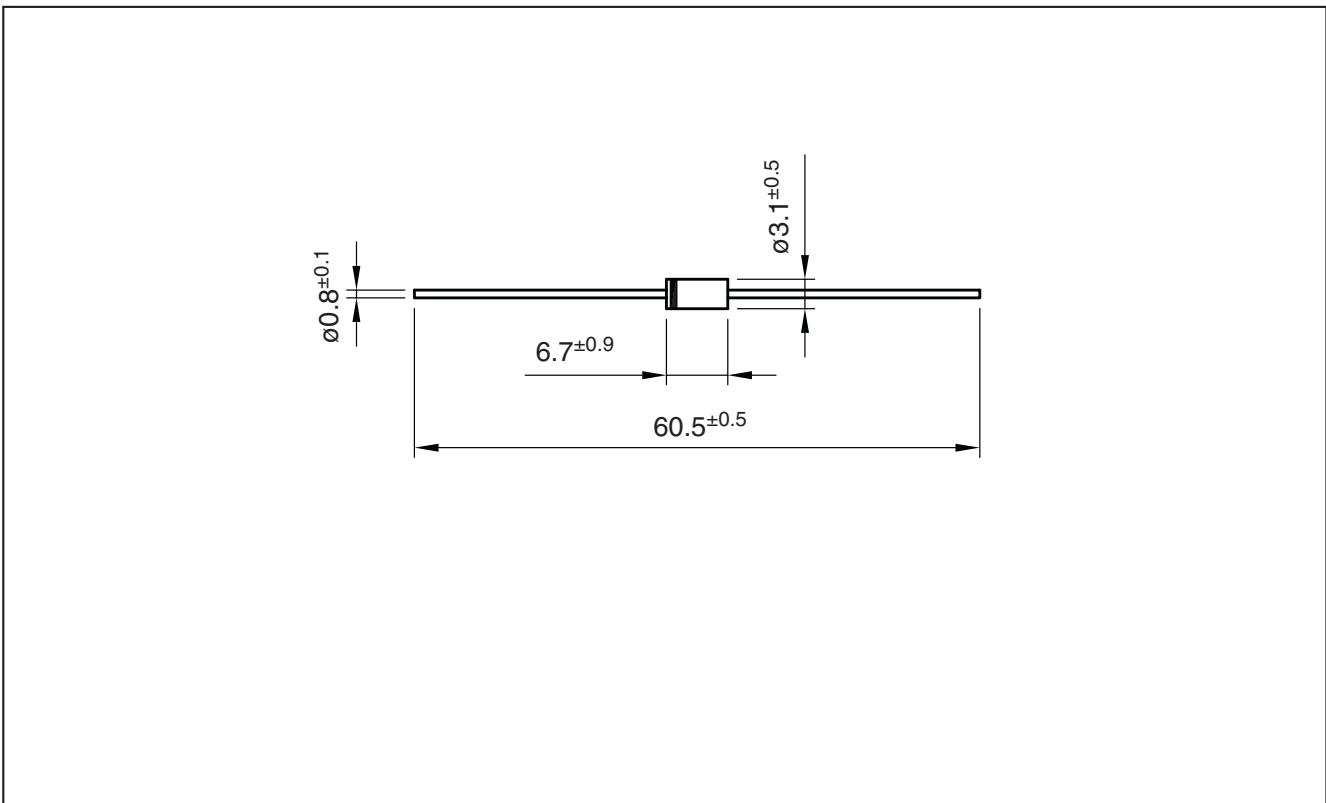
- Notes: 1. Pulse Test: 300µ Pulse Width, 1% Duty Cycle
 2. Thermal Resistance from Junction to Case per diode
 3. Pulse test: Pulse width ≤ 40ms

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Ordering information

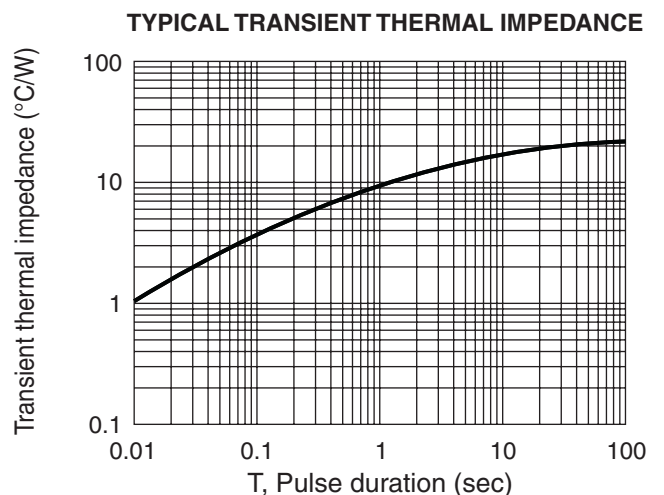
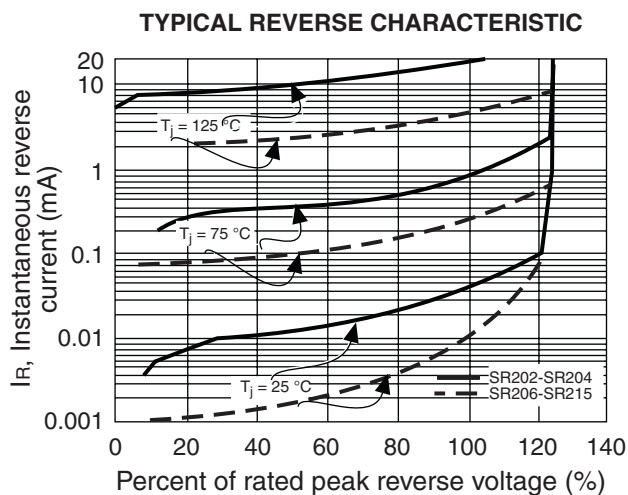
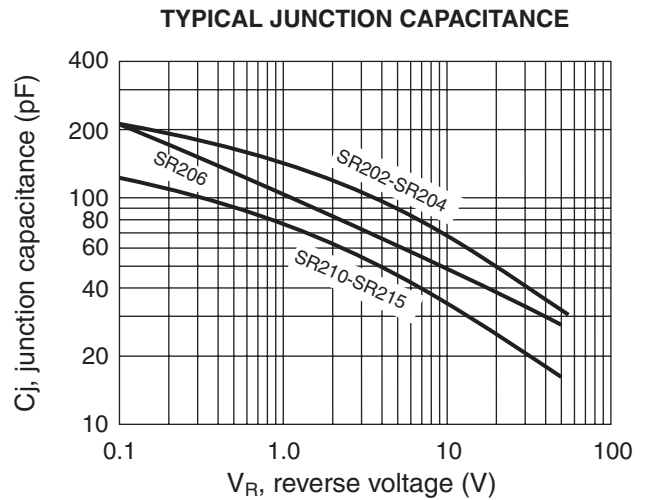
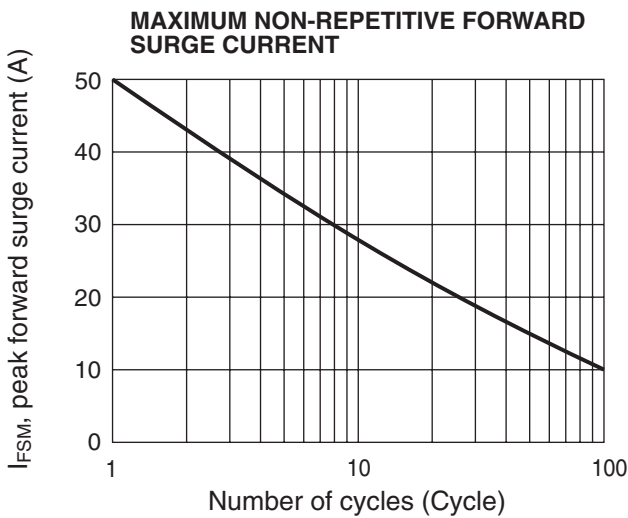
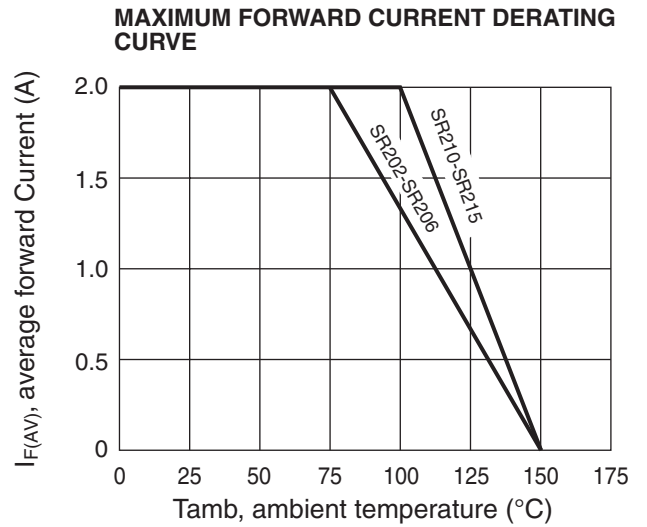
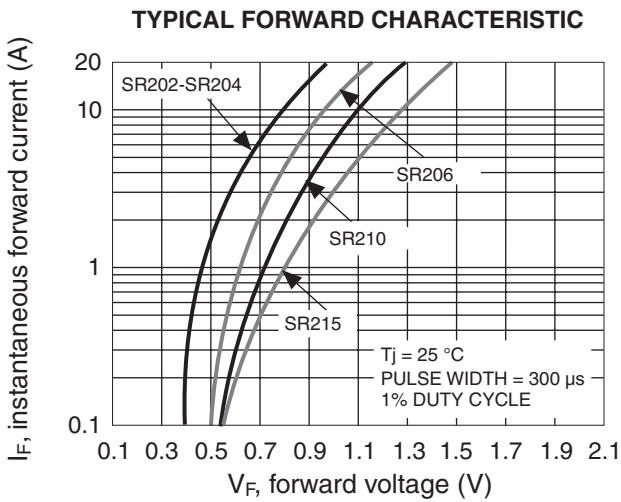
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SR206 AMP	AMP	AMMO BOX	1,800	0.378
SR206 TR	TR	13" diameter tape and reel	4,000	0.378
SR206 HF AMP	AMP	AMMO BOX	1,800	0.378
SR206 HF TR	TR	13" diameter tape and reel	4,000	0.378

Package Outline Dimensions: (mm) DO-204AC / DO-15



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Ratings and Characteristics (Ta 25 °C unless otherwise noted)



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