

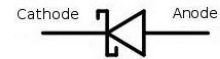


2.0A Schottky Barrier Rectifiers - 20V- 200V

PRIMARY CHARACTERISTICS

V_{RRM}	20V~200V
I_o	2.0A
V_F	0.5V,0.7V,0.85V,0.87V,0.9V
$T_{J,Max}$	150°C

SCHEMATIC DIAGRAM DO-41 PACKAGE



FEATURES

- Low switching noise
- Low forward voltage drop
- High current capability
- High reliability
- High surge capability
- High switching capability
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,DO-41
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	UNIT
Marking Code		SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at TL = 90°C	I _O	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50									Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	60									°C/W
	R _{θJC}	40									°C/W
Typical Junction Capacitance (Note 2)	C _J	180									pF
Operating Temperature Range	T _J	-55 to +125					-55 to +150				°C
Storage Temperature Range	T _{STG}	-65 to +150									°C

CHARACTERISTICS		SYMBOL	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	SR2150	SR2200	UNIT
Maximum Instantaneous Forward Voltage at 2.0A DC(Note 3)		V _F	0.50			0.70		0.85		0.87	0.90	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@TA=25°C	I _R	0.5					0.2				mAmps
	@TA=100°C		10					5				

NOTES :1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

Thermal Resistance (Junction to Case).

2. Measured at 1 MHz and applied of 4.0 volts

3. Measured at Pulse Width 300µs



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

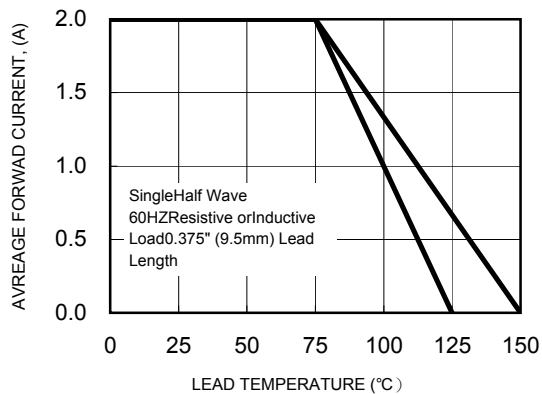


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

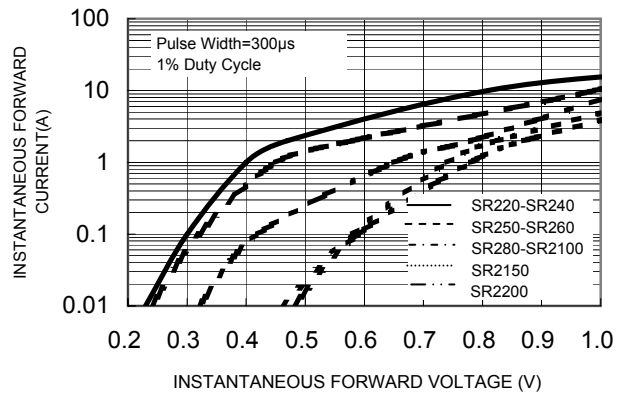


FIG.3-TYPICAL REVERSE CHARACTERISTICS

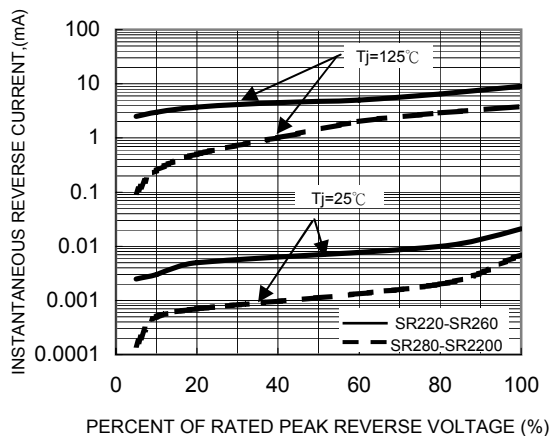


FIG.4-TYPICAL JUNCTION CAPACITANCE

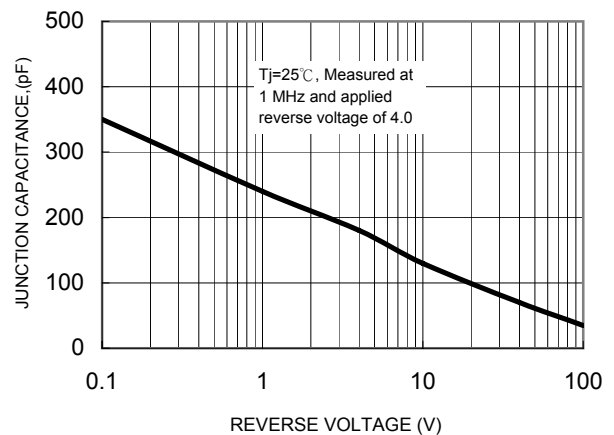
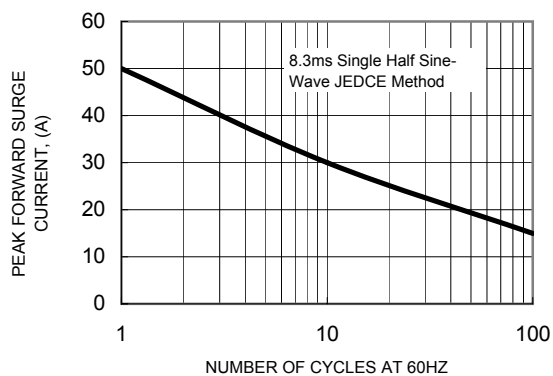


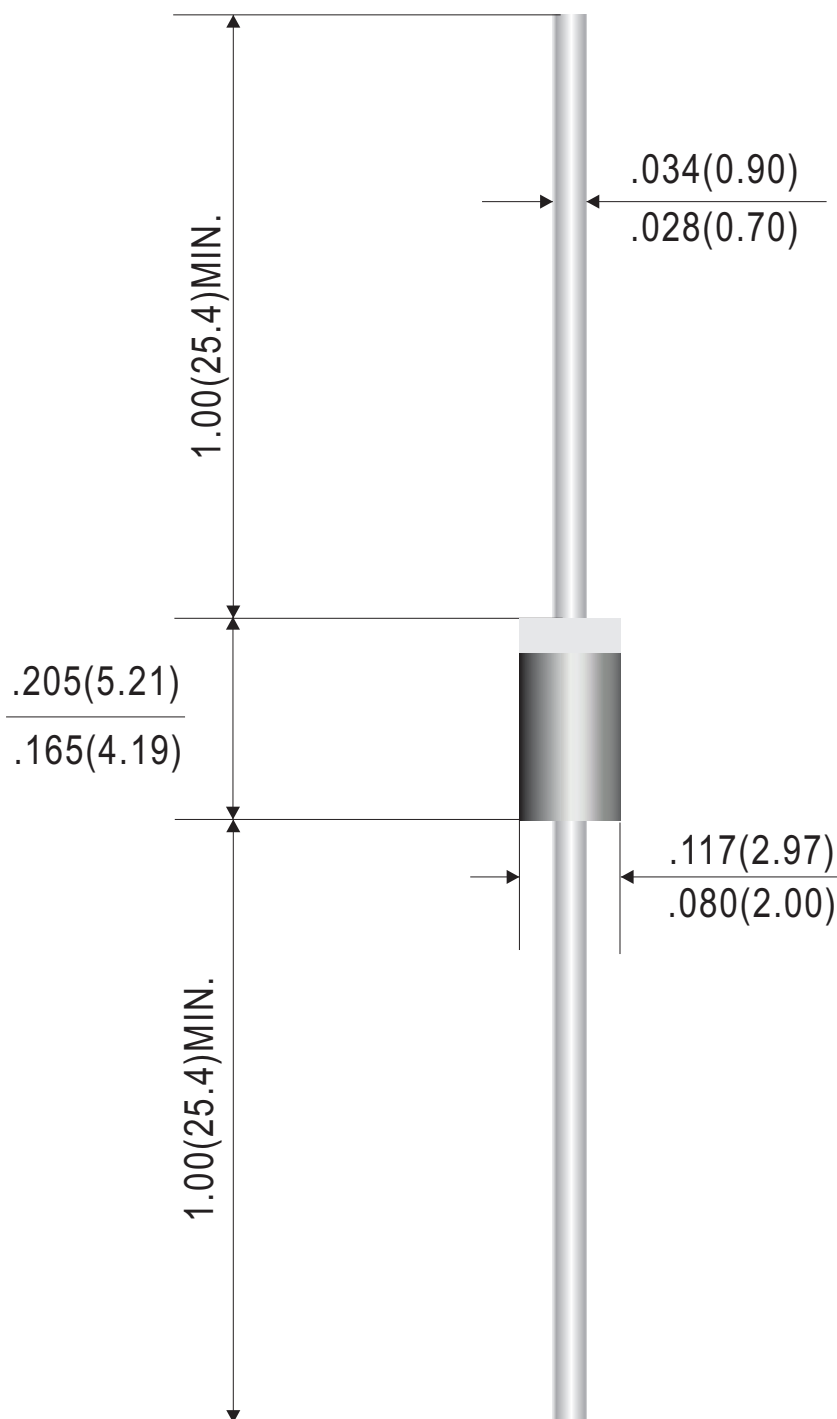
FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





Outline Drawing

DO-41



Dimensions in inches and (millimeters)

Rev.C



Ordering Information:

Device PN	Packing
Part Number -F ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Ammo Packing:3000pcs/Box

Note: (1) Packing code: F is Ammo Packing

(2) RoHS product for packing code suffix "G", Halogen free product for packing code suffix "H" .

(3) WS : Willas brand abbreviation, Label Type does not display

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