

1.0A Schottky Barrier Rectifiers -40V- 200V
PRIMARY CHARACTERISTICS

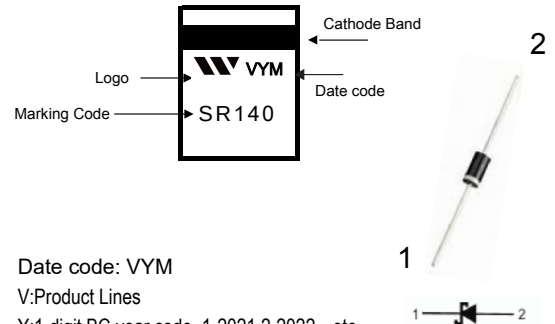
V_{RRM}	40V~200V
I_O	1.0A
$V_F@I_F=1A$	0.55V,0.70V,0.85V,0.87,0.95V
$T_{J,Max}$	150°C

FEATURES

- Metallurgically bonded construction
- High reliability
- Guard Ring for over voltage Protection
- High forward surge capability
- High frequency operation
- Moisture Sensitivity Level 1

DO-41 PACKAGE
• Body Marking: SR140~SR1200

Body Marking Example: SR140



Date code: VYM

V:Product Lines

Y:1-digit BC year code, 1-2021,2-2022...etc

M:Month, EX : 1-1,2-2,...10-O,11-N,12-D

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

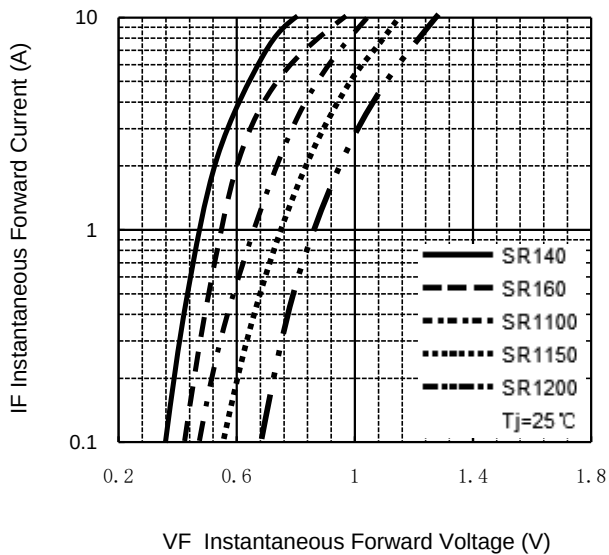
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	SR140	SR160	SR1100	SR1150	SR1200	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	60	100	150	200	V
Maximum Average Forward Rectified Current	I _F	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0					A
Maximum Instantaneous IF=1A @ 25°C Forward Voltage	V _F	0.55	0.70	0.85	0.87	0.90	V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I _R	0.5			0.2		mA
		10			2		
Typical Thermal Resistance	R _{θJA}	70					°C/W
	R _{θJC}	40					
Typical Junction Capacitance	C _J	110					pF
Operating Temperature Range	T _J	-55 to +125		-55 to +150			°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

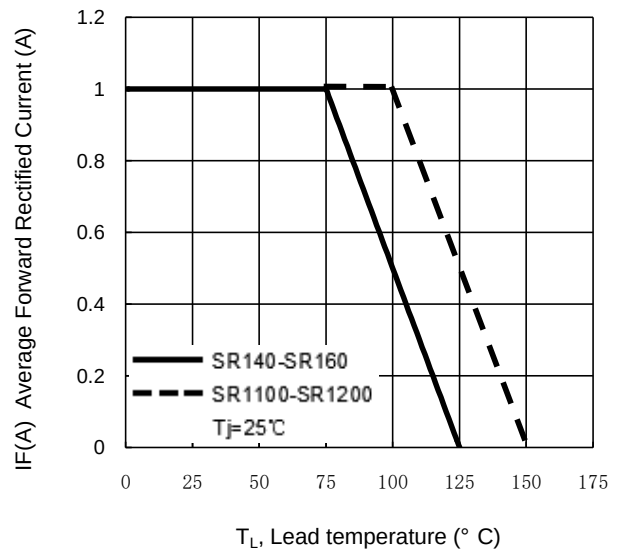


RATING AND CHARACTERISTIC CURVES

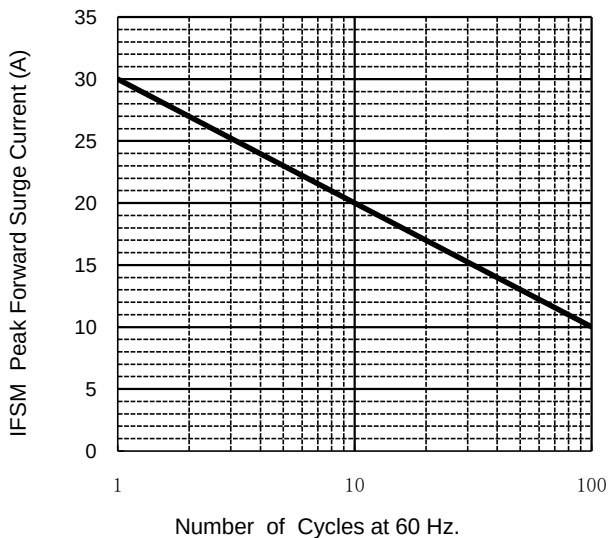
TYPICAL FORWARD CHARACTERISTIC



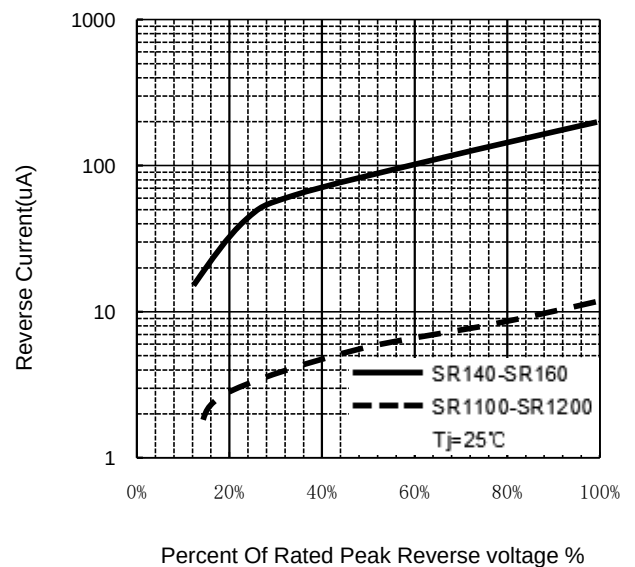
FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



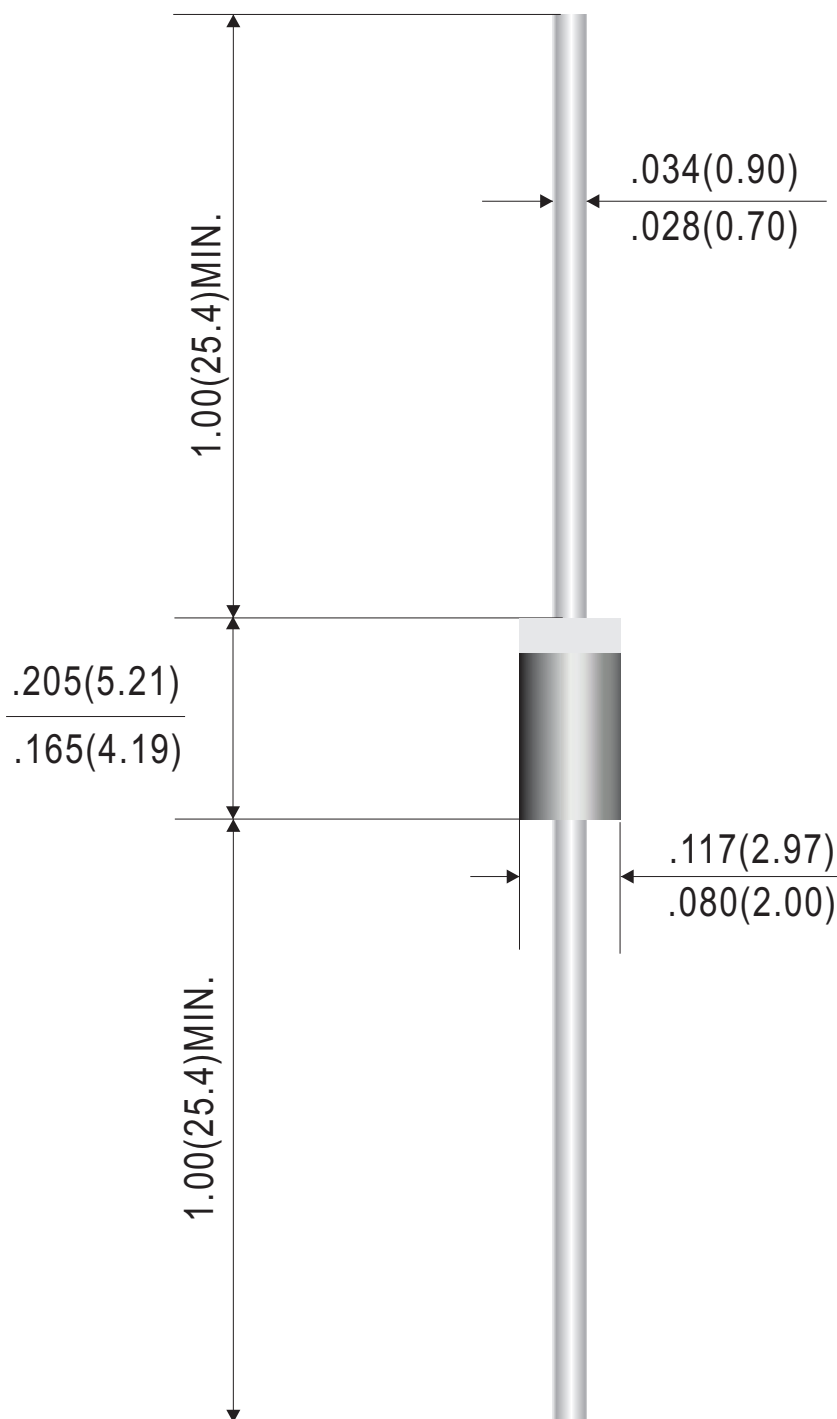
Typical Reverse Characteristics





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

*****Disclaimer*****

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.