

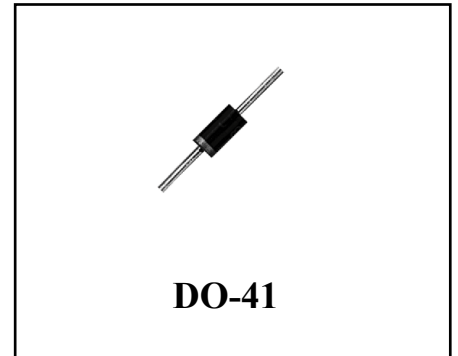
Axial Lead Schottky Barrier Rectifiers

 Lead(Pb)-Free

Features:

- * Low forward voltage drop.
- * High current capability.
- * High reliability.
- * High surge current capability.
- * Epitaxial construction.

**GENERAL PURPOSE
RECTIFIERS
2.0 AMPERES
20-100 VOLTS**



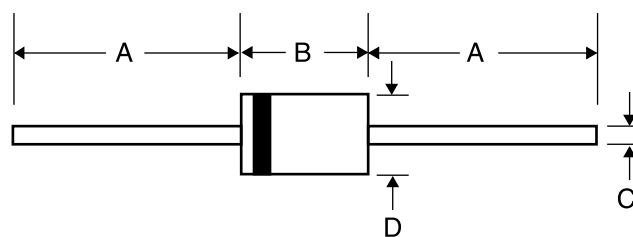
Mechanical Data:

- * Case: Molded plastic.
- * Epoxy: UL 94V-0 rate flame retardant.
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed.
- * Polarity: Color band denotes cathode end.
- * Mounting position: Any.
- * Weight: 0.34 grams.

DO-41 Outline Dimensions

Unit:mm

Axial Device (Through-Hole)



Dim	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
DO-41	25.40	-	4.06	5.20	0.70	0.90	2.00	2.70

Maximum Rating

Characteristic	Symbol	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	Units
Maximum repetitive 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	50	50	60	80	100	V
Maximum average forward rectified current	I_{AV}	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Typical thermal resistance ¹	$R_{\theta JA}$	35							°C/W
Operating junction temperature range	T_J	-55 to +125							°C
storage temperature range	T_{STG}	-65 to +150							°C

Electrical Characteristic

Characteristic	Symbol	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	Units
Maximum Instantaneous Forward Voltage $I_F=2.0A$	V_F	0.55			0.70		0.85		V
Maximum DC Reverse Current Rated DC Blocking Voltage, $T_A=25^\circ C$ $T_A=100^\circ C$	I_R	2.0 20							mA
Typical Junction Capacitance	C_P	170							pF

Notes 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

Ratings and Characteristics Curves

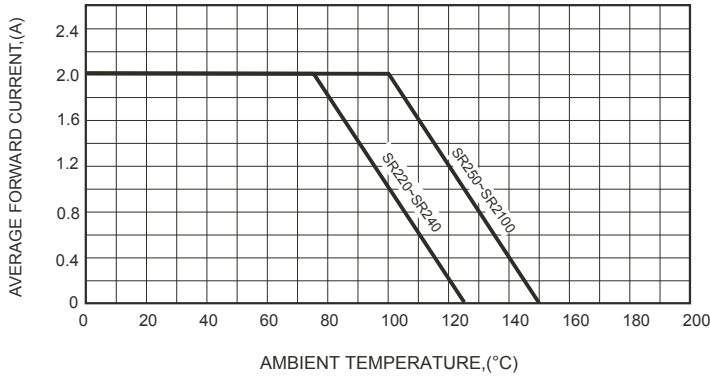


FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

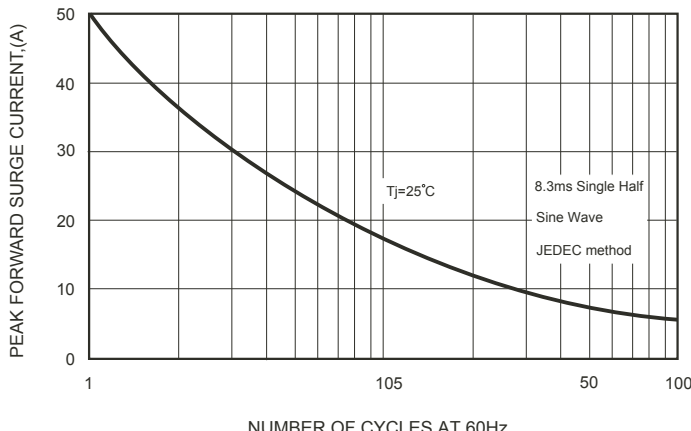


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

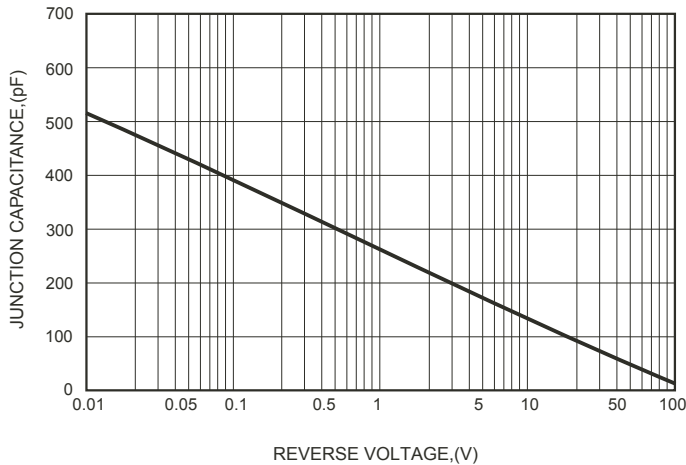


FIG.4-TYPICAL JUNCTION CAPACITANCE

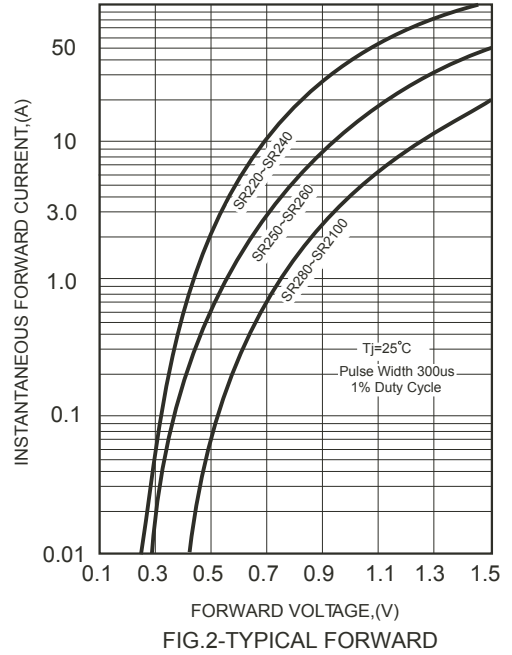


FIG.2-TYPICAL FORWARD

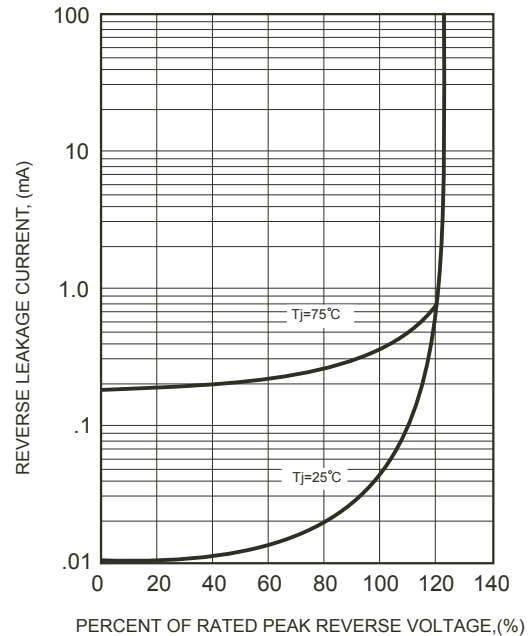


FIG.5 - TYPICAL REVERSE CHARACTERISTICS