

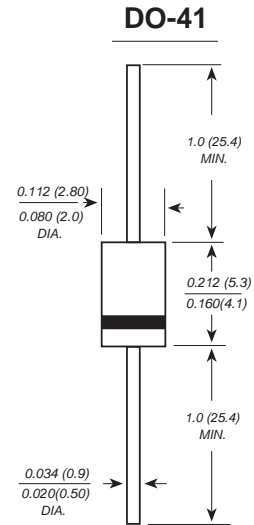
1.0Amp Fast Recovery Silicon Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Open Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 250°C/10 seconds at terminals

Mechanical Data

- Case :** Molded plastic body
- Terminals :** Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity :** Polarity symbol marking on body
- Mounting Position :** Any



Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter	SYMBOLS MARKING	1N4933	1N4934	1N4935	1N4936	1N4937	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	V
Maximum average forward rectified current at $T_L=100^\circ C$	$I_{(AV)}$	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30.0					A
Maximum instantaneous forward voltage at 1.0A	V_F	1.20					V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	10.0 500					μA
Maximum reverse recovery time(Note 1)	T_{rr}	200					ns
Typical junction capacitance (Note2)	C_J	15.0					pF
Typical thermal resistance	R_{qJA}	65.0					$^\circ C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ C$

Note: 1.Reverse recovery time test condition: $I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$
 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

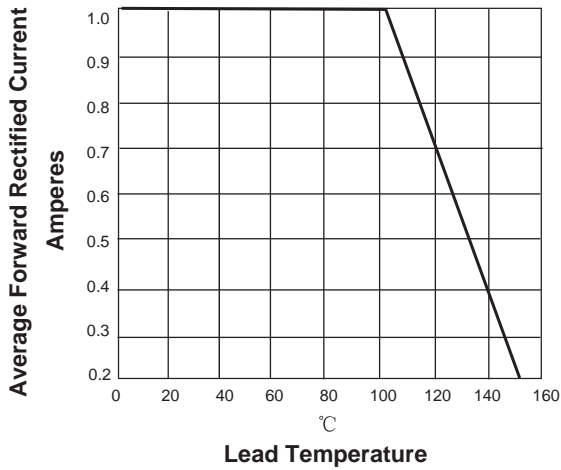


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

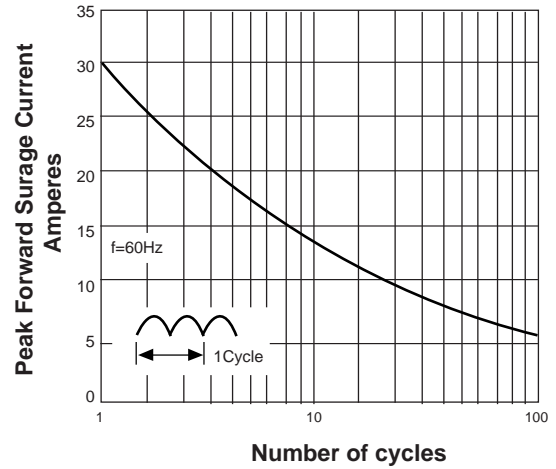


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

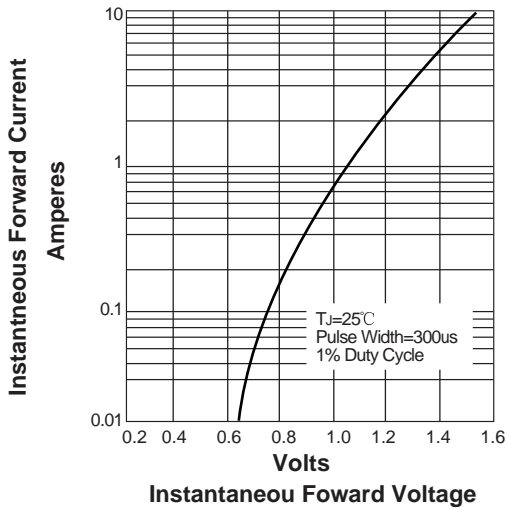


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

