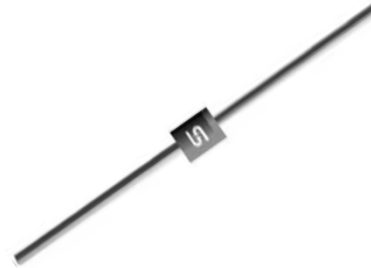


Fast Recovery Rectifiers

FEATURES

- High efficiency, Low VF
- High current capability
- High reliability
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



MECHANICAL DATA

Case: DO-204AL (DO-41)

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Weight: 0.33 g (approximately)

DO-204AL (DO-41)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	1N 4933	1N 4934	1N 4935	1N 4936	1N 4937	UNIT
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	I _{F(AV)}	1.0					A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					A
Maximum instantaneous forward voltage (Note 1) @ 1 A	V _F	1.2					V
Maximum reverse current @ rated VR T _J =25°C T _J =125°C	I _R	5 150					μA
Maximum reverse recovery time (Note 2)	T _{rr}	200					ns
Typical junction capacitance (Note 3)	C _j	10					pF
Typical thermal resistance	R _{θJA}	65					°C/W
Operating junction temperature range	T _J	- 55 to +150					°C
Storage temperature range	T _{STG}	- 55 to +150					°C

Note1: Pulse Test with PW=300μs, 1% Duty Cycle

Note2: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

ORDERING INFORMATION

PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
1N493x (Note 1)	A0	Suffix "G"	DO-41	3,000 / Ammo box (52mm taping)
	R0		DO-41	5,000 / 13" Paper reel
	R1		DO-41	5,000 / 13" Paper reel (Reverse)
	B0		DO-41	1,000 / Bulk packing

Note 1: "x" defines voltage from 50V (1N4933) to 600V (1N4937)

EXAMPLE

PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
1N4937 A0	1N4937	A0		
1N4937 A0G	1N4937	A0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

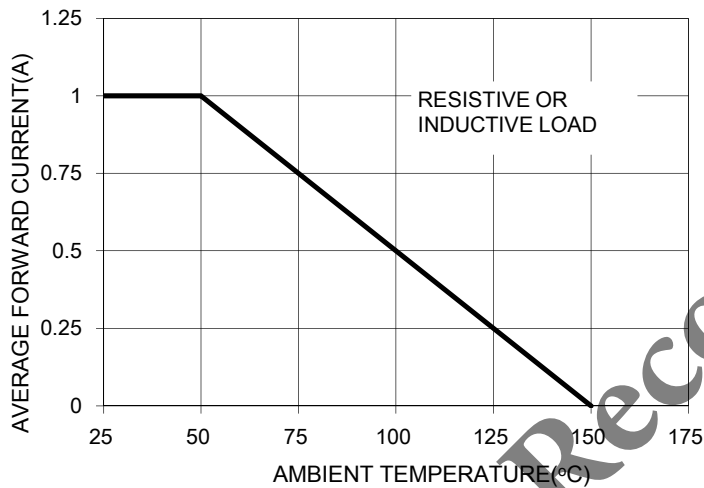


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

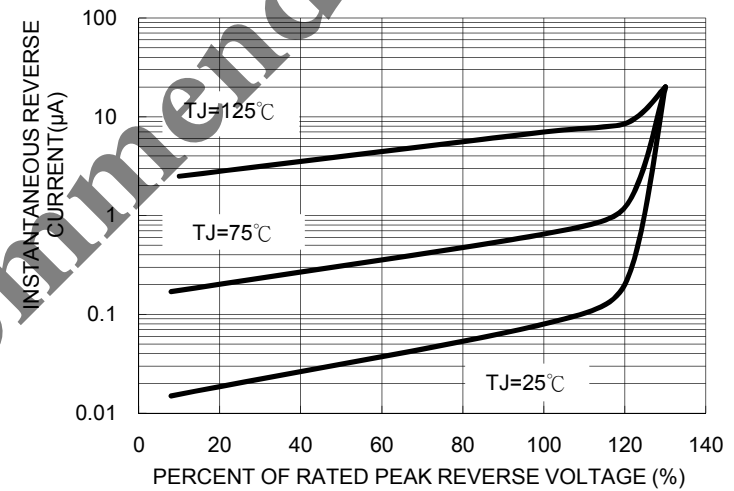


FIG. 3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

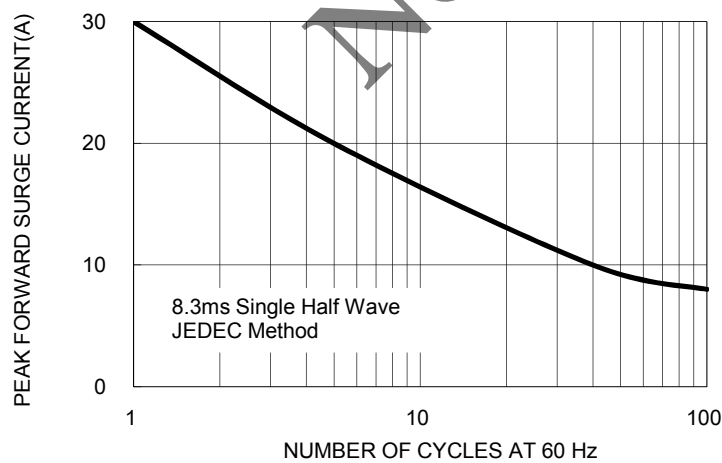
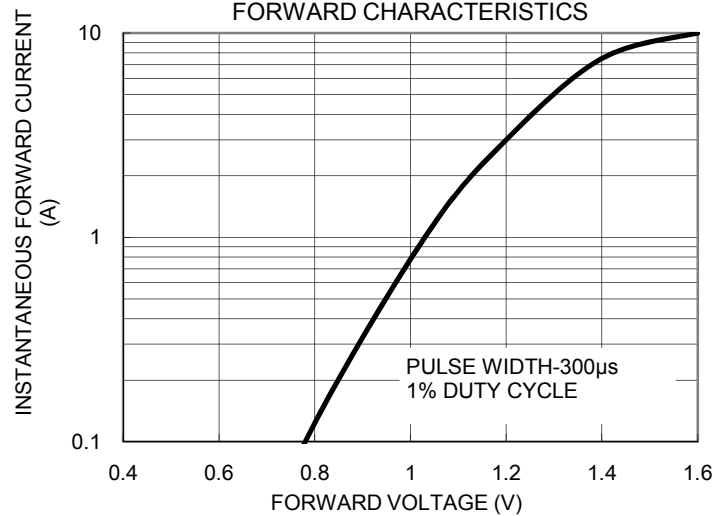


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



Not Recommended

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