BL GALAXY ELECTRICAL

RU4D(Z) --- RU4DS(Z)

HIGH EFFICIENCY RECTIFIERS

VOLTAGE RANGE: 1300 V
CURRENT: 1.5,2.5 A

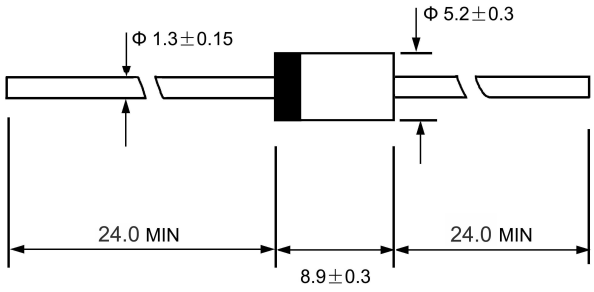
FEATURES

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with freon, alcohol, Isopropand and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case: JEDEC DO-27, molded plastic
- ◇ Terminals: Axial leads,solderable per MIL-STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.041 ounces,1.15 grams
- ◇ Mounting: Any

DO - 27



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		RU4D	RU4DS	UNITS
Maximum peak repetitive reverse voltage	V_{RRM}	1300		V
Maximum RMS voltage	V_{RMS}	910		V
Maximum DC blocking voltage	V_{DC}	1300		V
Maximum average forw ard rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.5	2.5	A
Peak forw ard surge current 10ms single half-sine-w ave superimplsed on rated load @T_J=125℃	I_{FSM}	50.0		A
Maximum instantaneous forw ard voltage @ I_F=$I_{F(AV)}$	V_F	1.8		V
Maximum reverse current @T_A=25℃	I_R	50.0		μA
at rated DC blocking voltage @T_A=100℃		500.0		
Maximum reverse recovery time (Note1)	t_{rr}	300		ns
Typical junction capacitance (Note2)	C_J	50		pF
Typical thermal resistance (Note3)	$R_{\theta JL}$	8		℃/W
Operating junction temperature range	T_J	- 55 ----- + 150		℃
Storage temperature range	T_{STG}	- 55 ----- + 150		℃

NOTE: 1. Measured with I_F=0.5A, I_R=1A, Irr=0.25A.

2. Measured at 1.0MH_Z and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to lead.

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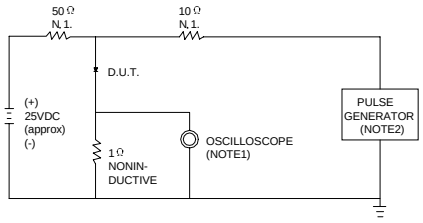
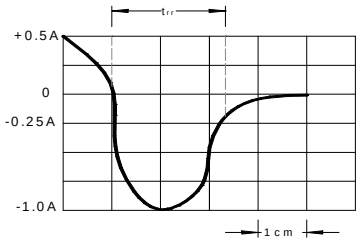
FIG.1 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





NOTES:1.RISE TIME = 7ns MAX.INPUT IMPEDANCE =1MΩ. 22pF.
2.RISE TIME =10ns MAX.SOURCE IMPEDANCE=50 Ω.

SET TIME BASE FOR150ns/cm

FIG.2 -- TYPICAL FORWARD CHARACTERISTIC

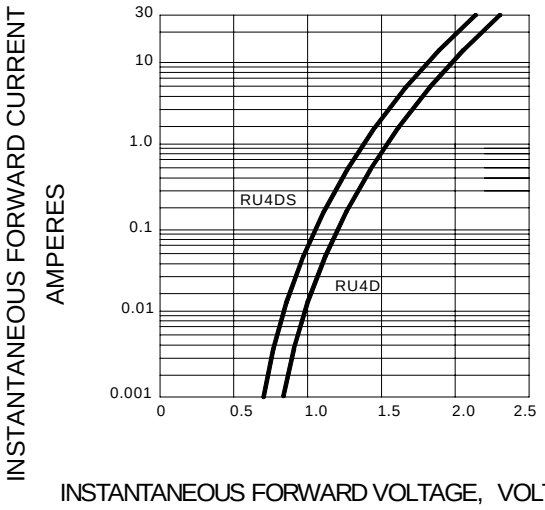


FIG.3 -- FORWARD DERATING CURVE

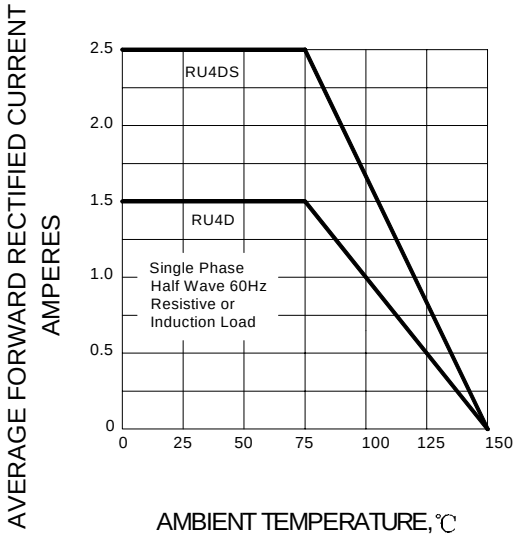


FIG.4 -- PEAK FORWARD SURGE CURRENT

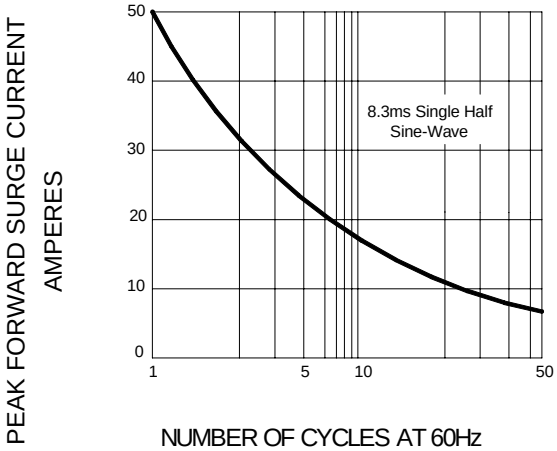


FIG.5--TYPICAL JUNCTION CAPACITANCE