B L GALAXY ELECTRICAL

1F10 --- 1F20

PHOTO FLASH RECTIFIERS

VOLTAGE RANGE: 1000 --- 2000 V
CURRENT: 0.5 A

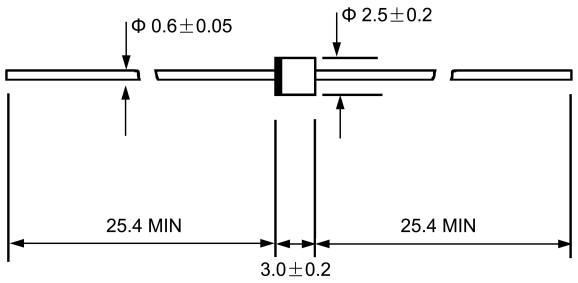
FEATURES

- ◇ Fast switching
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with alcohol,Isopropanol and similar solvents

MECHANICAL DATA

- ◇ Case: JEDEC R--1,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.007ounces, 0.20 grams
- ◇ Mounting position: Any

R - 1



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

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

		1F10	1F12	1F14	1F15	1F16	1F18	1F20	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	1000	1200	1400	1500	1600	1800	2000	V
Maximum RMS voltage	V_{RMS}	700	840	980	1050	1120	1260	1400	V
Maximum DC blocking voltage	V_{DC}	1000	1200	1400	1500	1600	1800	2000	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	0.5							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load T_J=125℃	I_{FSM}	25.0							A
Maximum instantaneous forward voltage @ 0.5 A	V_F	1.8							V
Maximum reverse current @T_A=25℃	I_R	5.0							μA
at rated DC blocking voltage @T_A=100℃		100.0							
Maximum reverse recovery time (NOTE1)	t_{rr}	300							ns
Typical junction capacitance (NOTE2)	C_J	15							pF
Operating junction temperature range	T_J	-55 ---- + 125							℃
Storage temperature range	T_{STG}	-55 ---- + 150							℃

NOTE: 1. Reverse recovery test conditions:I_F=0.5A,I_R=-1.0A,I_{RR}=-0.25A.

2. Mersured at 1MH_Z and applied reverse voltage of 4.0V.

www.galaxycn.com

FIG.1 -- FORWARD DERATING CURVE

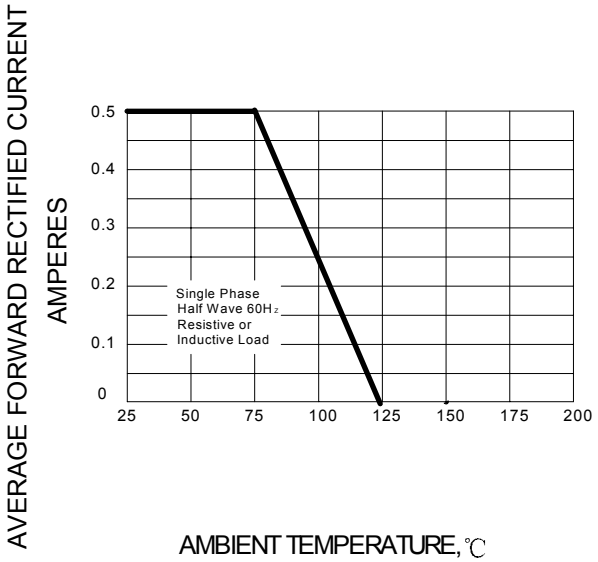


FIG.2 -- PEAK FORWARD SURGE CURRENT

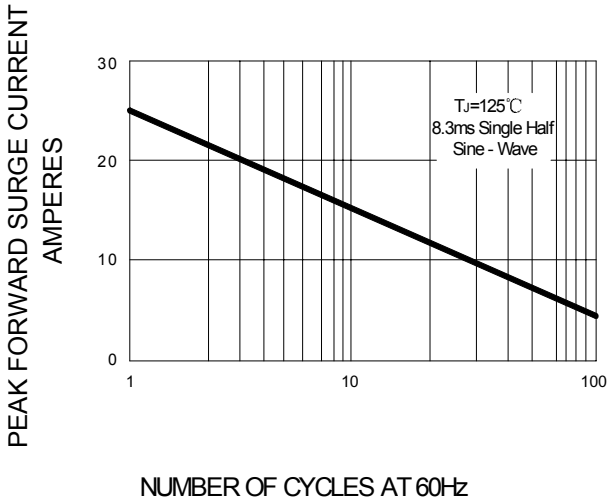
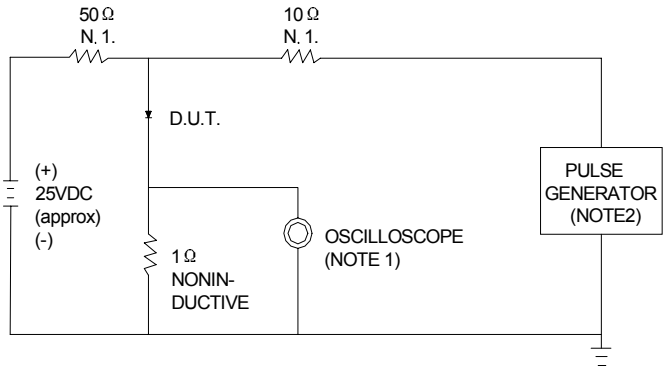
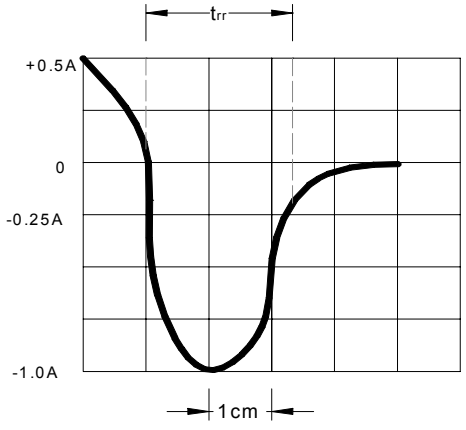


FIG.3 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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



SET TIME BASE FOR 50/100 ns/cm