B L GALAXY ELECTRICAL

UGP10A --- UGP10K

SUPER FAST RECTIFIERS

VOLTAGE RANGE: 50 --- 800 V
CURRENT: 1.0 A

FEATURES

- ◇ Low cost
- ◇ Diffusde junction
- ◇ Low leakage
- ◇ low leakage current
- ◇ Easily cleaned with alcohol,Isopropanol and similar solvents
- ◇ Plastic package has underwriters laboratory flammability classification 94v-0

MECHANICAL DATA

- ◇ Case:JEDEC DO--41,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.012 ounces,0.34 grams
- ◇ Mounting position: Any

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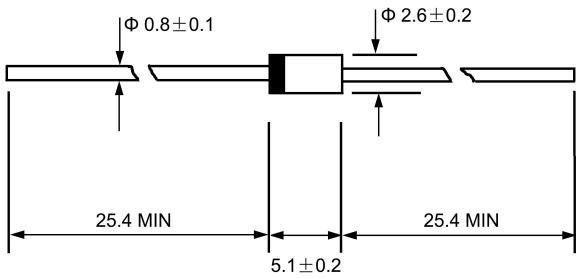

Dimensions in millimeters

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%.

		UGP 10A	UGP 10B	UGP 10D	UGP 10F	UGP 10G	UGP 10J	UGP 10K	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	300	400	600	800	V
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	560	V
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	800	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	30.0					25.0		A
Maximum instantaneous forward voltage @ 1.0A	V_F	0.95			1.25		1.7	2.2	V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 50.0							μA
Maximum reverse recovery time (Note1)	t_{rr}	35							ns
Typical junction capacitance (Note2)	C_J	17							pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	50							℃/W
Operating junction temperature range	T_J	- 55 ----- + 125							℃
Storage temperature range	T_{STG}	- 55 ----- + 150							℃

NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

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

3. Thermal resistance junction to ambient.

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FIG.1 -- FORWARD DERATING CURVE

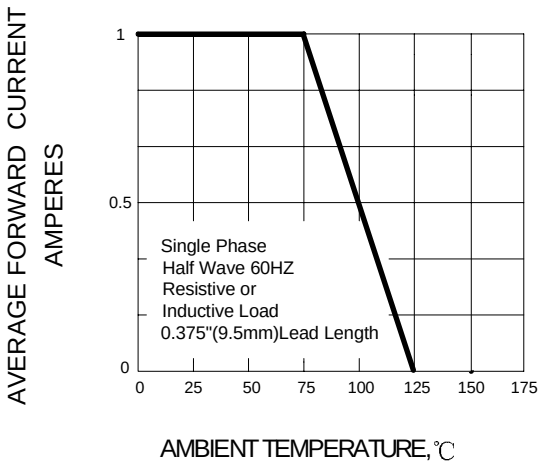

FIG.2 --PEAK FORWARD SURGE CURRENT

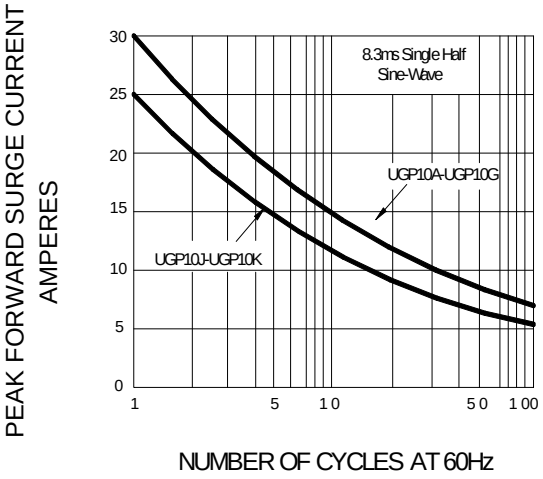

FIG.3 --TYPICAL FORWARD CHARACTERISTIC

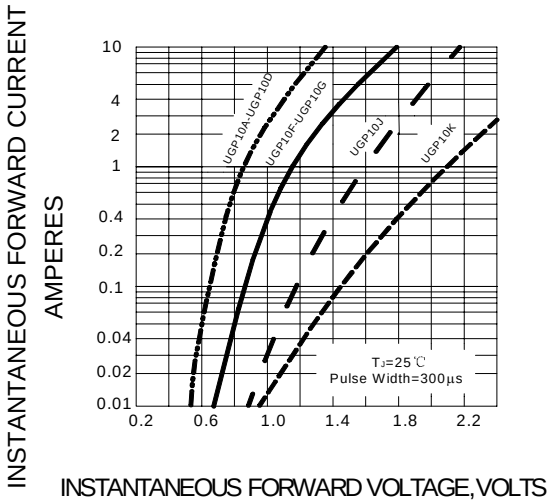

FIG.4--TYPICAL REVERSE CHARACTERISTICS

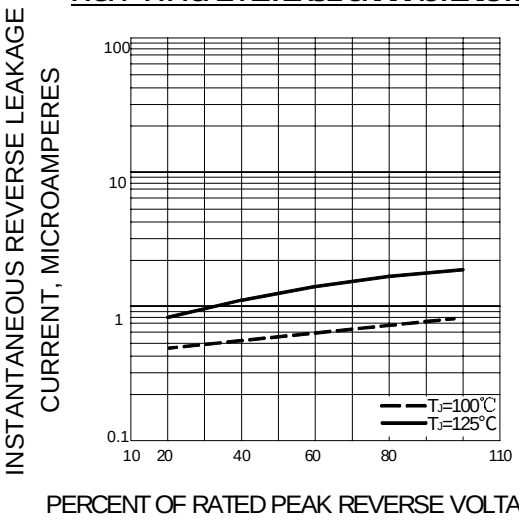

FIG.5--TYPICAL JUNCTION CAPACITANCE