

SILICON PRESS-FIT DIODES

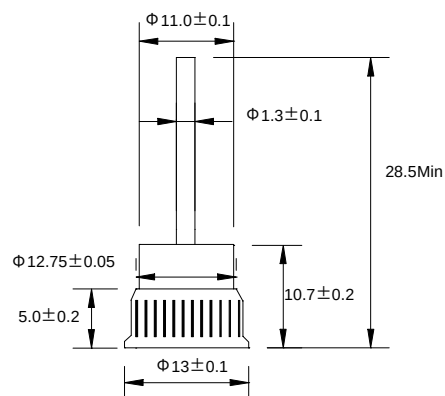
VOLTAGE RANGE: 200 -- 600 V

CURRENT: 50 A

FEATURES

- ◇ Nominal current 50A
- ◇ Repetitive peak reverse voltage 600 V
- ◇ Metal press -fit case with plastic cover

ZQL2



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Wire to anode			ZQ50A2L2	ZQ50A4L2	ZQ50A6L2	UNITS
Wire to cathode			ZQ50K2L2	ZQ50K4L2	ZQ50K6L2	
Repetitive peak reverse voltage	V_{RRM}		200	400	600	V
Surge peak reverse voltage	V_{RSM}		240	480	700	V
Max.average forward rectified current, R-load @ $T_A=55^{\circ}\text{C}$	$I_{F(AV)}$		50			A
Repetitive peak forward current $f>15\text{Hz}$ (NOTE1)	I_{FRM}		110			A
Peak forward surge current,50/60 Hz half sine-wave	I_{FSM}		450/500			A
Forward voltage @ $I_F=50\text{A}$	V_F		1.1			V
Leakage current @ $T_j=25^{\circ}\text{C}$	I_R		100			μA
Rating for fusing $t<10\text{ms}$	i^2t		800			A^2S
Thermal resistance junction to case	R_{thc}		0.7			K/W
Operating junction temperature	T_j		- 55 --- + 215			$^{\circ}\text{C}$
Storage temperature range	T_S		- 55 --- + 215			$^{\circ}\text{C}$

NOTE: Max.case temperature $T_C=150^{\circ}\text{C}$ -Max.

www.galaxycn.com

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

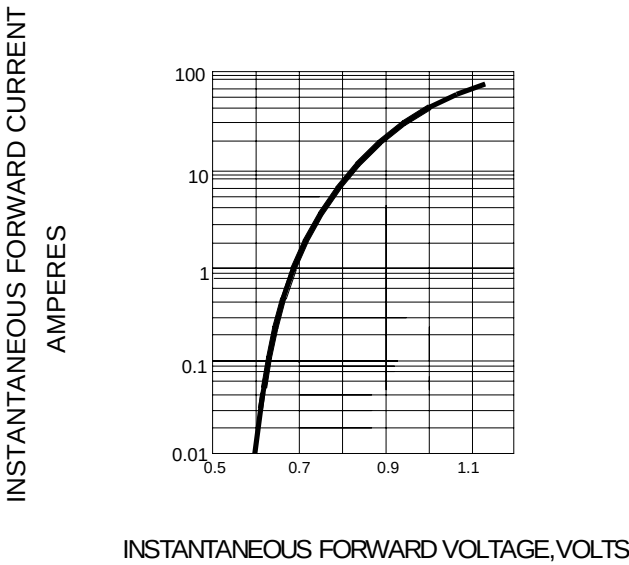


FIG.2 -- FORWARD DERATING CURRENT

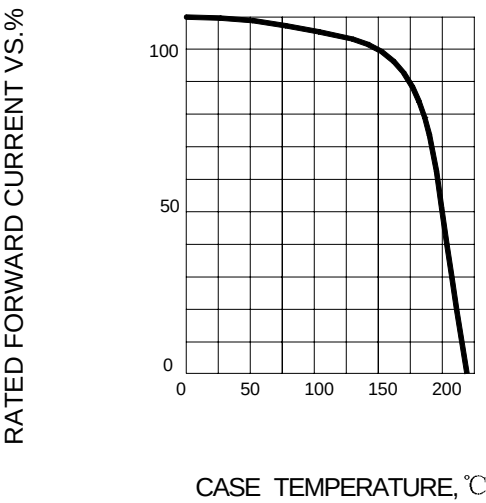


FIG.3 – PEAK FORWARD SURGE CURRENT

