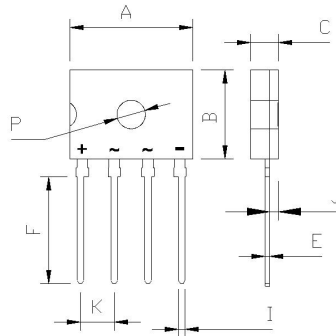


### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 135 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



D3K		
Dim	Min	Max
A	13.65	14.15
B	9.80	10.20
C	2.95	3.25
E	0.35	0.65
F	11.70	12.30
I	0.65	0.95
J	0.90	1.20
K	3.60	4.00
P	Ø3.2Typical	
All Dimensions in mm		

### Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	LGE 4005	LGE 401	LGE 402	LGE 404	LGE 406	LGE 408	LGE 410	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
50Hz sine wave, R-load Without heat sink Ta=25°C	$I_{F(AV)}$	4.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	135							A
I <sup>2</sup> t Rating for fusing @Tj=25°C	I <sup>2</sup> t	75.6							A <sup>2</sup> S

### Thermal Characteristics

Characteristic	Symbol	Value	UNITS
Typical Thermal Resistance (Note)	$R_{\theta JA}$	14	°C/W
	$R_{\theta JC}$	8.2	
	$R_{\theta JL}$	9.3	
Operating junction temperature range	$T_J$	- 55 ---- + 150	°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150	°C

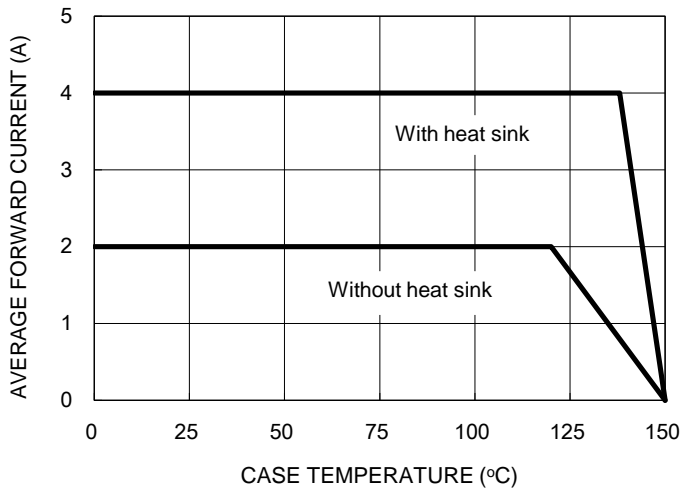
### Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	Value	UNITS
Maximum instantaneous forward voltage @2.0A	$V_F$	1.0	V
Maximum reverse current at rated DC blocking voltage	$I_R$	@TA=25 °C	5.0
		@TA=100°C	500
			µ A

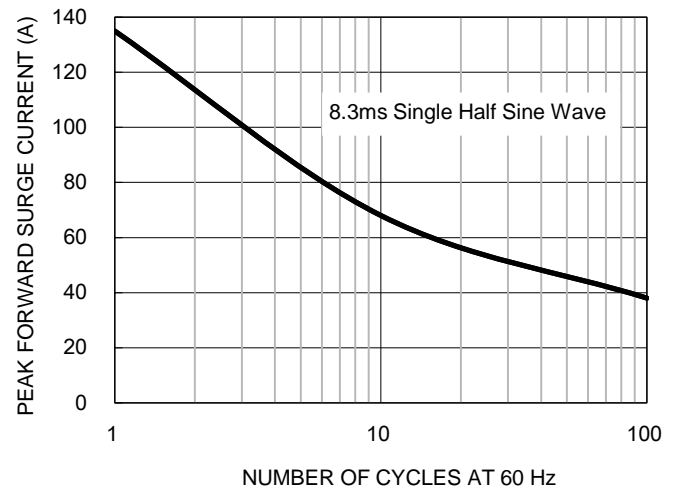
**RATINGS AND CHARACTERISTICS CURVES**

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

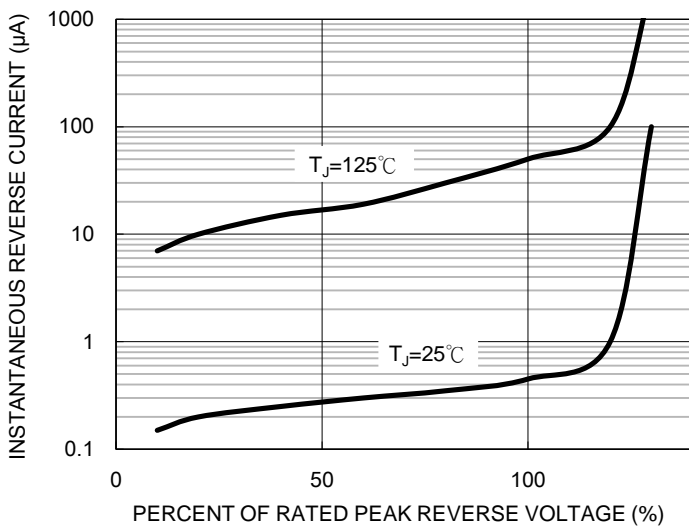
**Fig.1 Maximum Derating Curve For Output current**



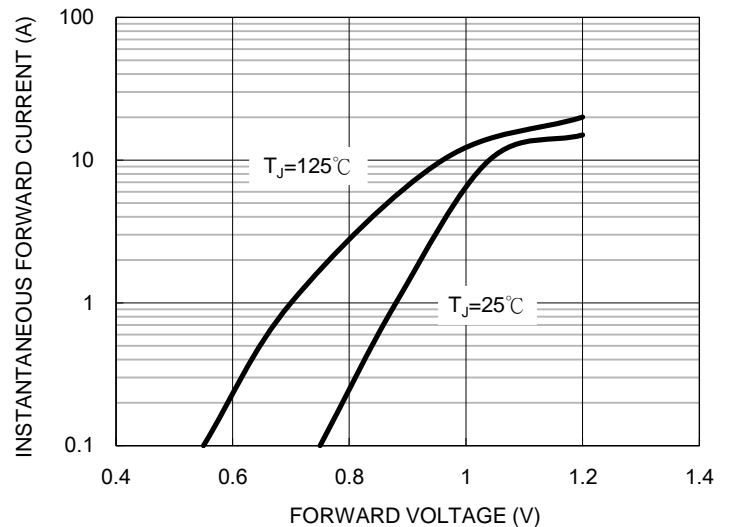
**Fig.2 Maximum Forward Surge Current**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



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