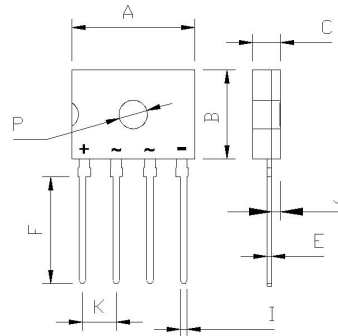


FEATURES

- Rating to 1000V PRV
- Surge overload rating to 170 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 6005	LGE 601	LGE 602	LGE 604	LGE 606	LGE 608	LGE 610	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	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	170							A
I ² t Rating for fusing @Tj=25°C	I ² t	120							A ² S

Thermal Characteristics

Characteristic	Symbol	Value	UNITS
Typical Thermal Resistance (Note)	$R_{\theta JA}$	15.9	°C/W
	$R_{\theta JC}$	11.2	
	$R_{\theta JL}$	11.1	
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 @3.0A	V_F	1.0	V
Maximum reverse current at rated DC blocking voltage	I_R	@TA=25°C	5.0
		@TA=100°C	500
			µA

RATINGS AND CHARACTERISTICS CURVES

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

FIG1:Io-Ta Curve

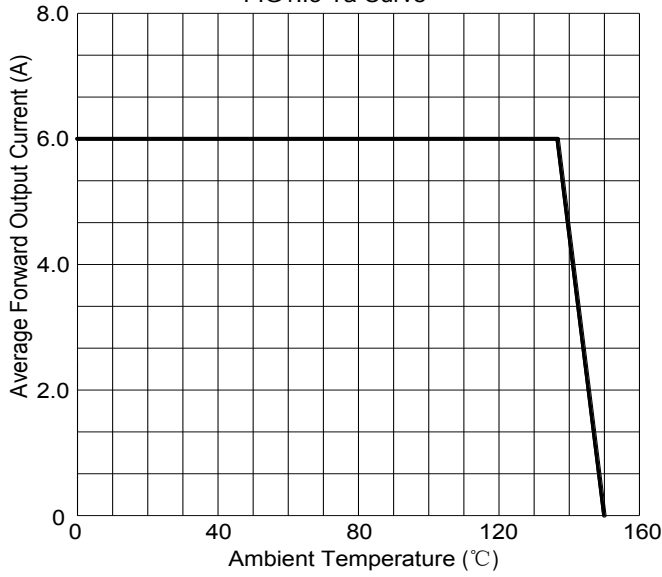


FIG2:Surge Forward Current Capability

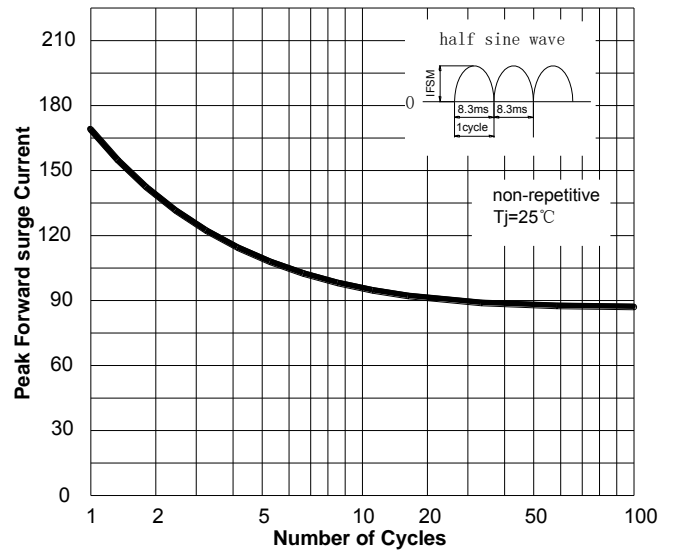


FIG3: Forward Voltage

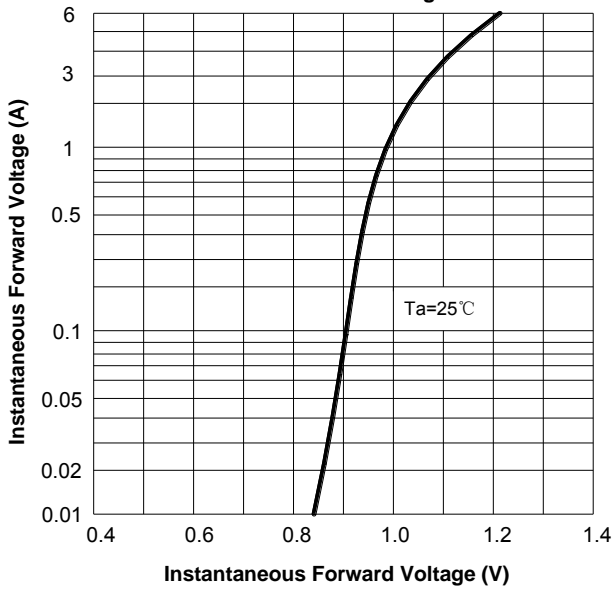


FIG4:Typical Reverse Characteristics

