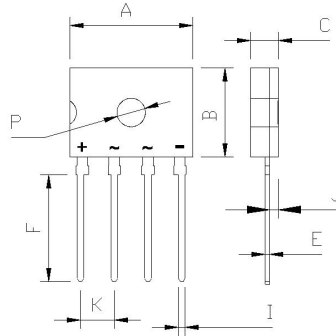




### FEATURES

- 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 8005	LGE 801	LGE 802	LGE 804	LGE 806	LGE 808	LGE 810	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	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	170							A
I <sup>2</sup> t Rating for fusing @Tj=25°C	I <sup>2</sup> t	120							A <sup>2</sup> S

### Thermal Characteristics

Characteristic	Symbol	Value	UNITS
Typical Thermal Resistance (Note)	$R_{\theta JA}$	55	°C/W
	$R_{\theta JC}$	8.2	
	$R_{\theta JL}$	15	
Operating junction temperature range	$T_J$	- 55 ---- + 150	°C
Storage temperature range	$T_{STG}$	- 55 ---- + 150	°C

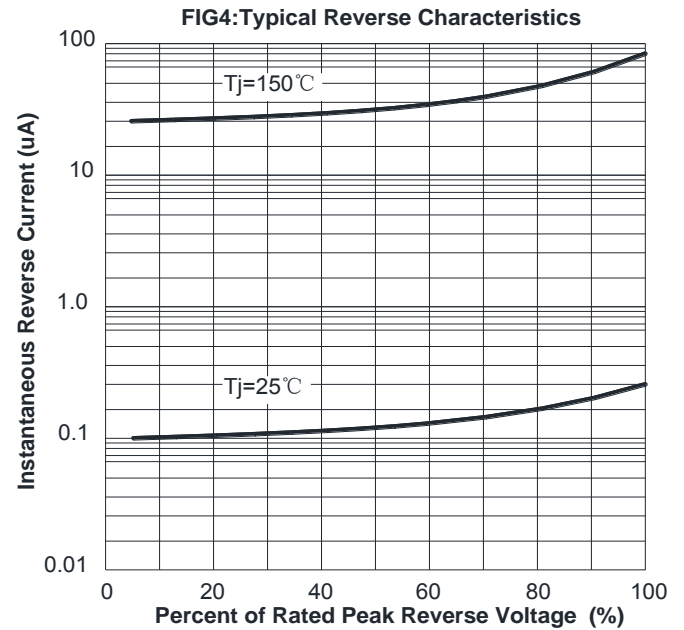
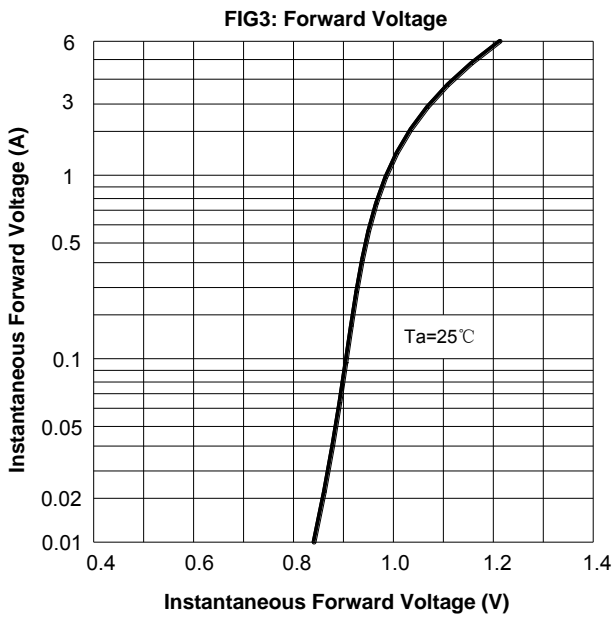
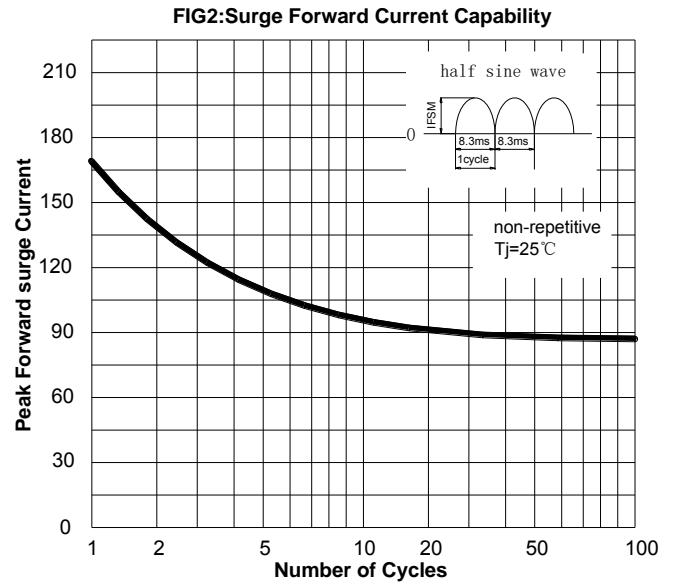
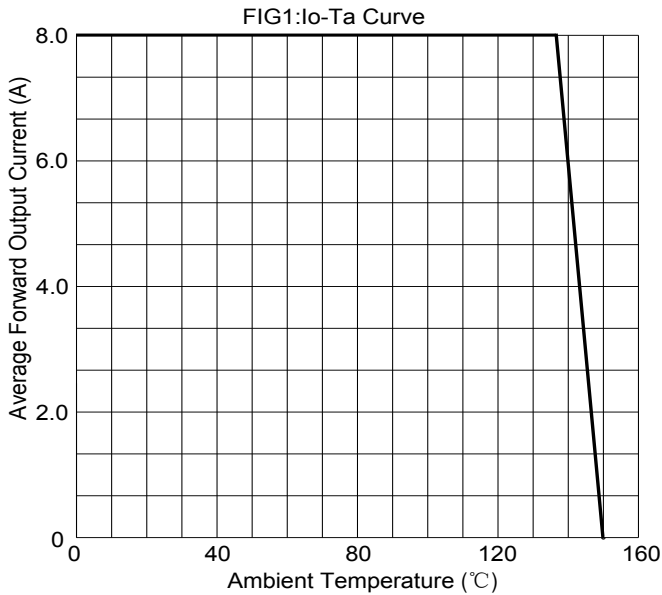
### Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	Value	UNITS
Maximum instantaneous forward voltage @4.0A	$V_F$	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)



Package	Tube (mm)	Q'TY/Tube (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
D3K	445*30.7*5.6	0.03	495*130*70	1.2	520*370*155	6