

Fig. 1 Resistor R_K in Series with Negative Pin to Achieve Different Current Levels

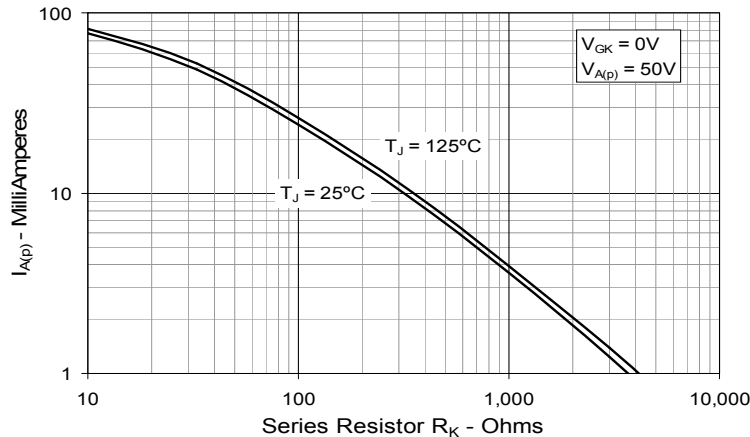


Fig. 2. Plateau Current vs. External Resistance

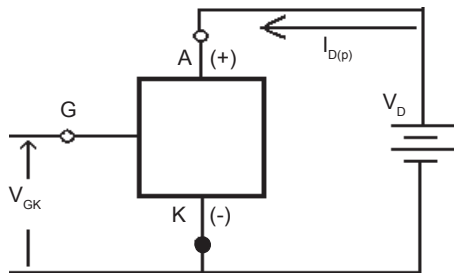


Fig. 3. Current Regulator Controlled by V_{GK}

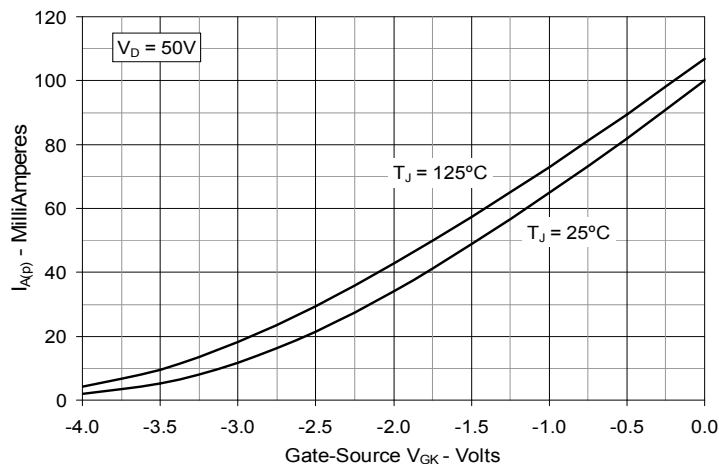
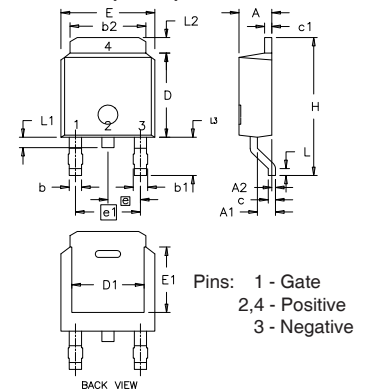


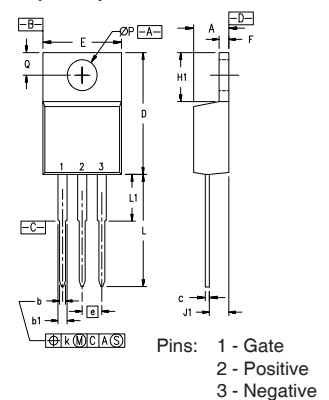
Fig. 4. Plateau Current vs. Applied Input Voltage

TO-252 AA (IXCY)

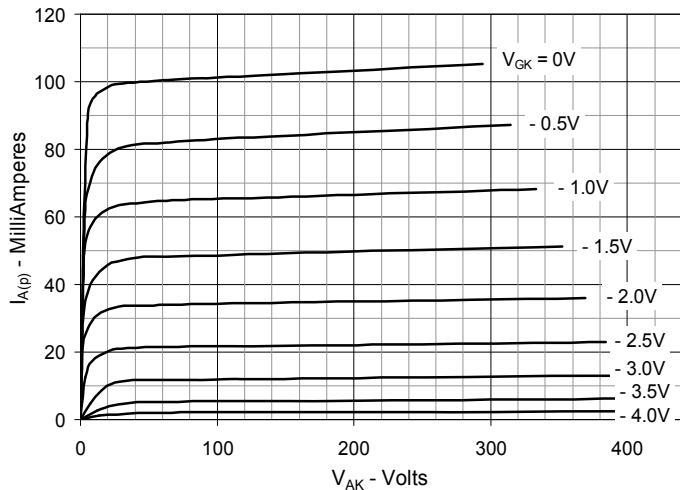
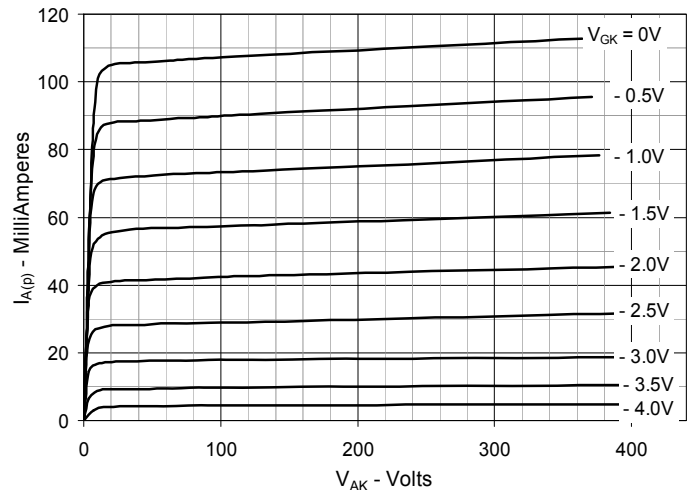
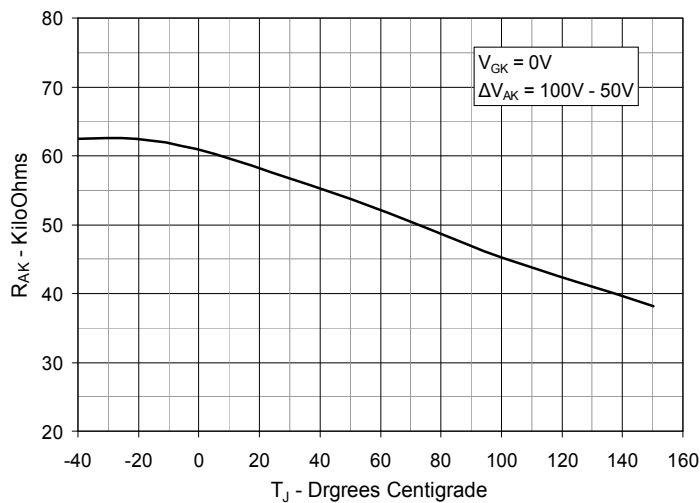
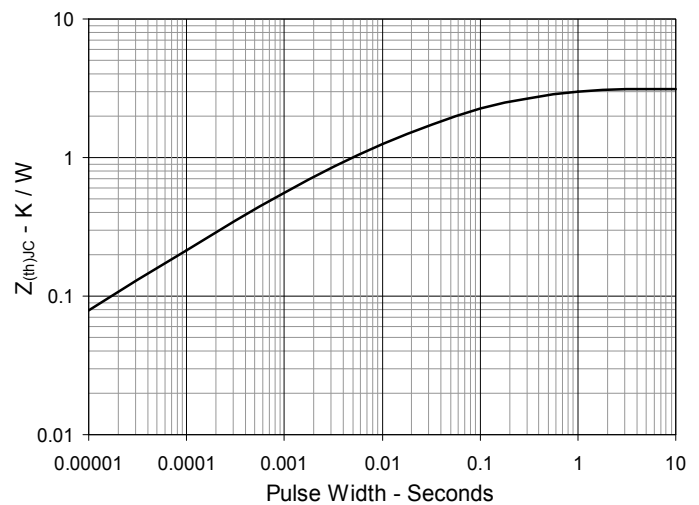
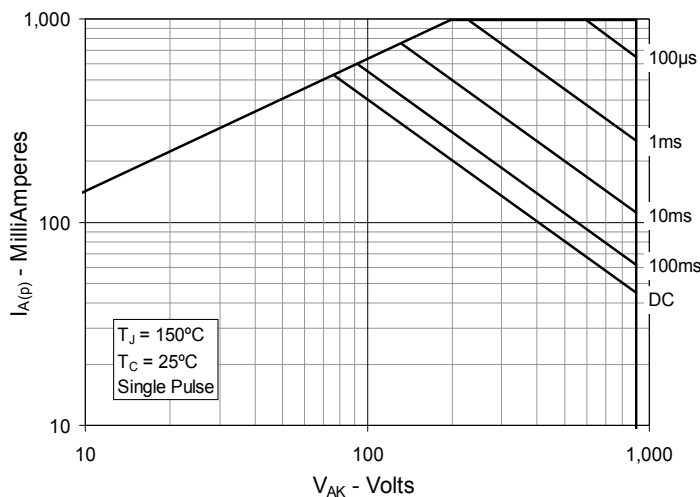
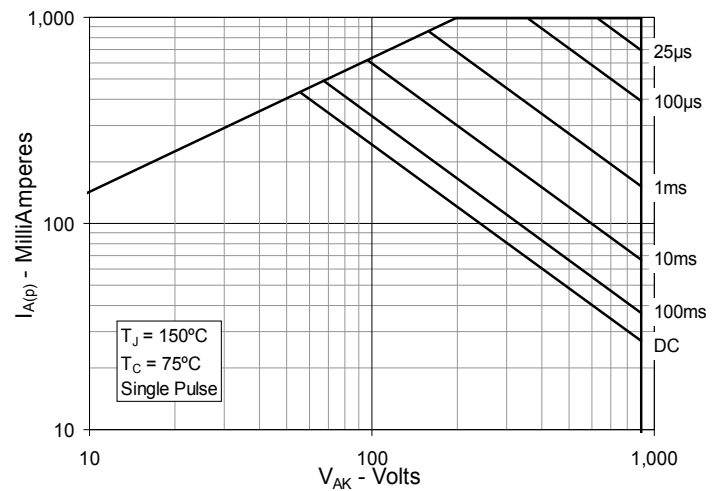


Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	2.19	2.38	0.086	0.094
A1	0.89	1.14	0.035	0.045
A2	0	0.13	0	0.005
b	0.64	0.89	0.025	0.035
b1	0.76	1.14	0.030	0.045
b2	5.21	5.46	0.205	0.215
c	0.46	0.58	0.018	0.023
c1	0.46	0.58	0.018	0.023
D	5.97	6.22	0.235	0.245
D1	4.32	5.21	0.170	0.205
E	6.35	6.73	0.250	0.265
E1	4.32	5.21	0.170	0.205
e	2.28 BSC		0.090 BSC	
e1	4.57 BSC		0.180 BSC	
H	9.40	10.42	0.370	0.410
L	0.51	1.02	0.020	0.040
L1	0.64	1.02	0.025	0.040
L2	0.89	1.27	0.035	0.050
L3	2.54	2.92	0.100	0.115

TO-220 (IXCP) Outline



SYM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.170	.190	4.32	4.83
b	.025	.040	0.64	1.02
b1	.045	.065	1.15	1.65
c	.014	.022	0.35	0.56
D	.580	.630	14.73	16.00
E	.390	.420	9.91	10.66
e	.100 BSC		2.54 BSC	
F	.045	.055	1.14	1.40
H1	.230	.270	5.85	6.85
J1	.090	.110	2.29	2.79
k	0	.015	0	0.38
L	.500	.550	12.70	13.97
L1	.110	.230	2.79	5.84
ØP	.139	.161	3.53	4.08
Q	.100	.125	2.54	3.18


Fig. 5. Extended Output Curves @ $T_J = 25^\circ\text{C}$

Fig. 6. Extended Output Curves @ $T_J = 125^\circ\text{C}$

Fig. 7. Dynamic Resistance vs. Junction Temperature

Fig. 8. Maximum Transient Thermal Resistance

Fig. 9. Forward-Bias Safe Operating Area @ $T_C = 25^\circ\text{C}$

Fig. 10. Forward-Bias Safe Operating Area @ $T_C = 75^\circ\text{C}$