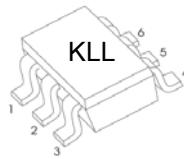
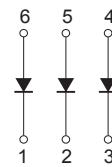


## Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching
- Low Leakage Current



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Schematic Diagram

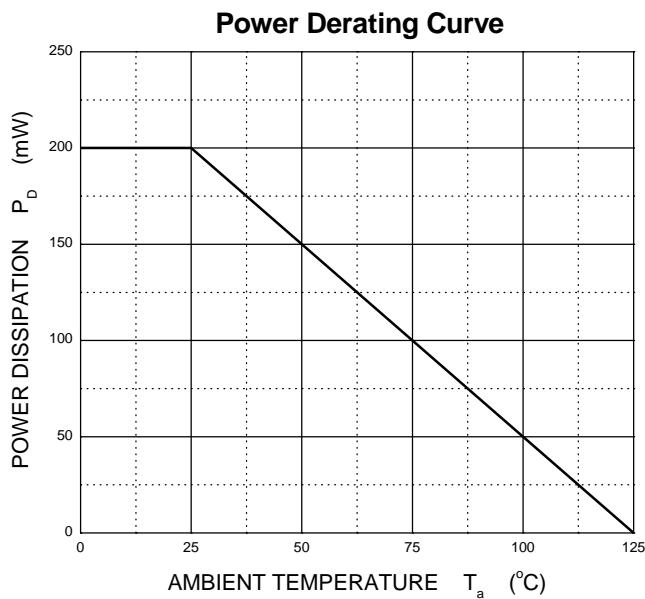
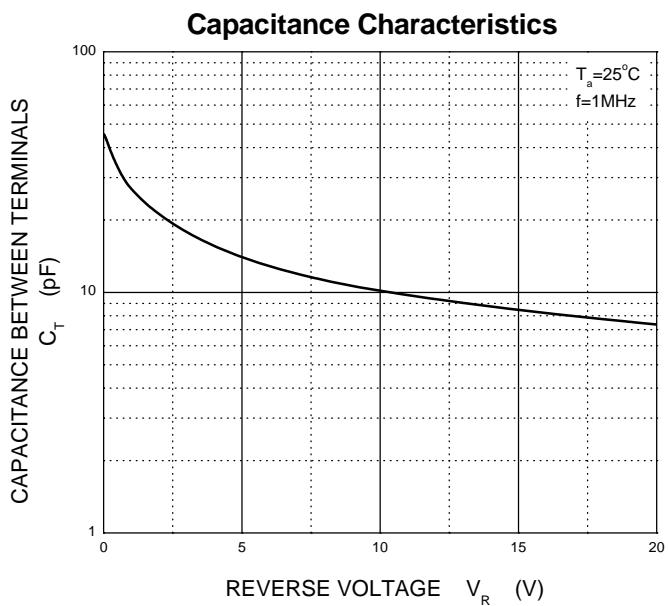
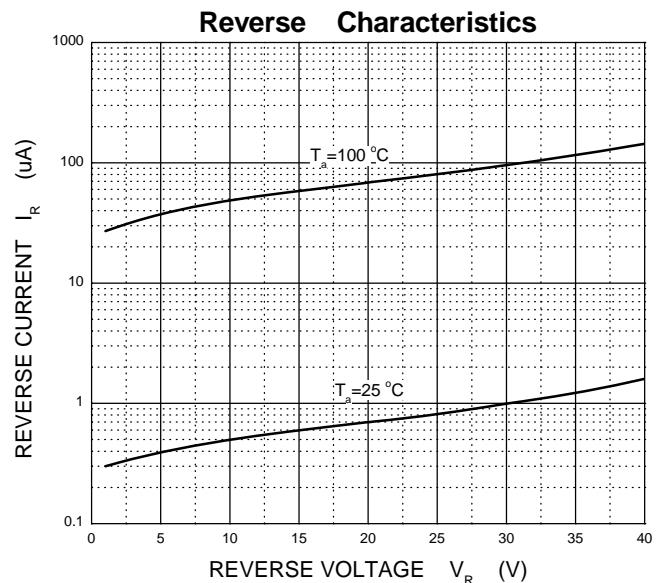
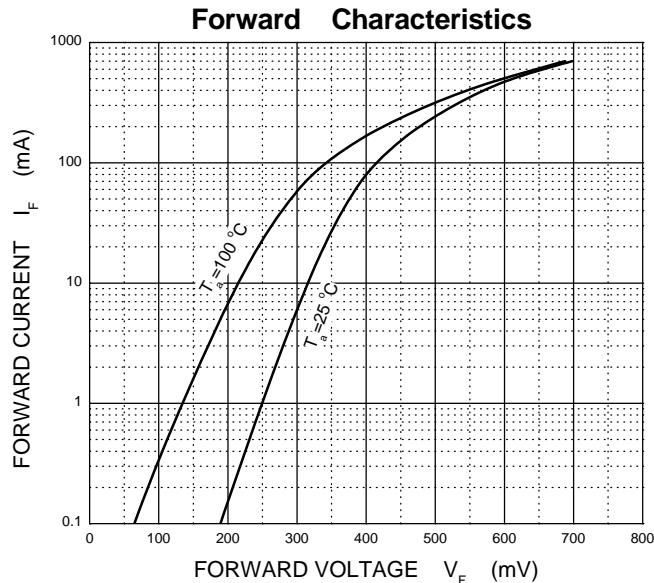
## Maximum Ratings and Electrical Characteristics (Single Diode @ $T_A=25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	40	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(\text{RMS})}$	28	V
Forward Continuous Current	$I_{FM}$	350	mA
Average Rectified Current	$I_O$	175	mA
Repetitive Peak Forward Current @ $t \leq 10\text{ms}$	$I_{FSM}$	1	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 to +150	$^\circ\text{C}$

## Electrical Ratings ( $T_A=25^\circ\text{C}$ unless otherwise specified)

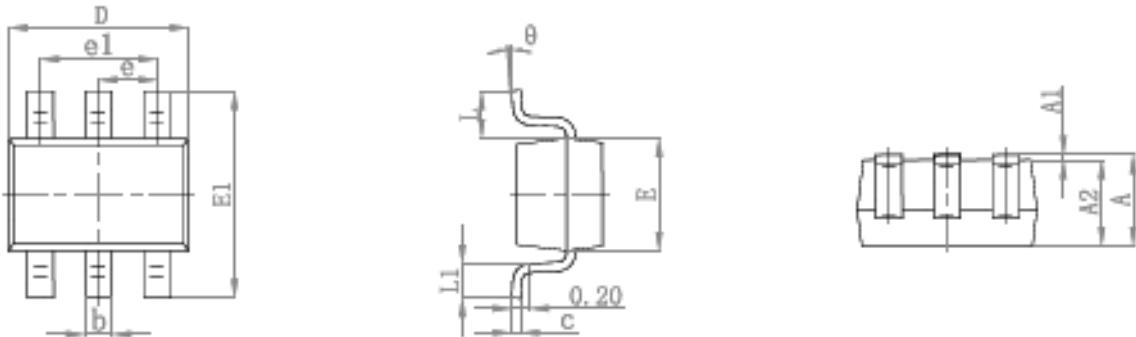
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)}$	40			V	$I_R=100\mu\text{A}$
Forward Voltage	$V_F$			0.37 0.50	V	$I_F=20\text{mA}$ $I_F=100\text{mA}$
Reverse Current	$I_R$			2.0 5.0	$\mu\text{A}$	$V_R=10\text{V}$ $V_R=30\text{V}$
Capacitance Between Terminals	$C_T$		50	pF	V	$R=0\text{V}, f=1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$		10		ns	$I_F=I_R=200\text{mA}$ $I_{rr}=0.1XI_R, R_L=100\Omega$

## Typical Characteristic Curves



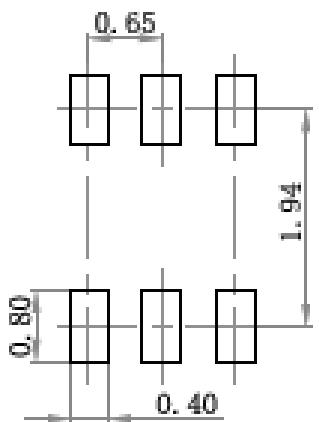
## Package Outline Dimensions

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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.100	0.150	0.004	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.400	0.085	0.094
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

## Suggested Pad Layout



### Note:

1. Controlling dimension:in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.