

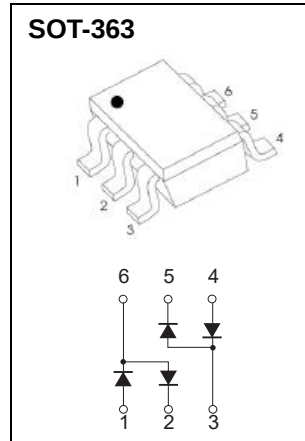
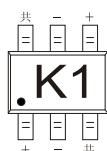
SOT-363 Plastic-Encapsulate Diodes

HIGH-SPEED SWITCHING DIODE

FEATURES

- Small Plastic Package
- High Switching Speed
- Low Capacitance
- Two Electrically Isolated Series Configuration Arrays

MARKING: K 1



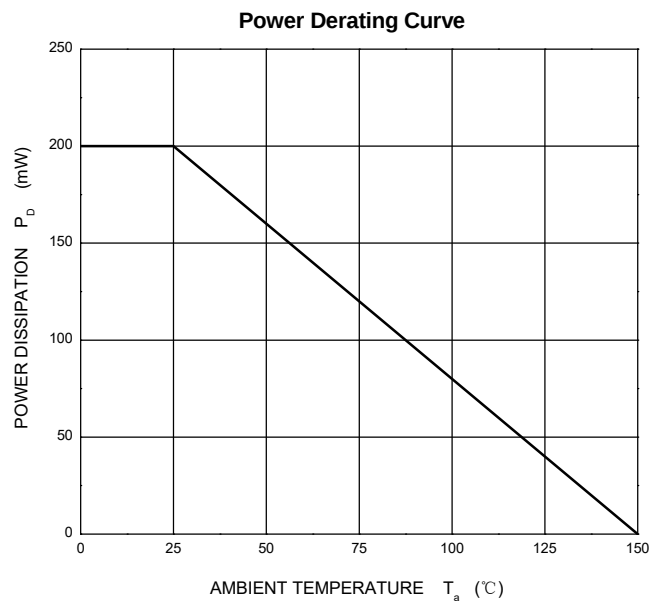
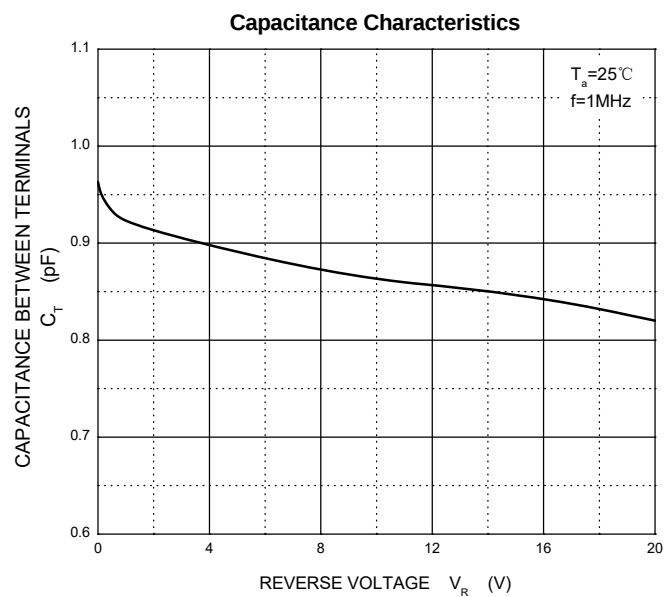
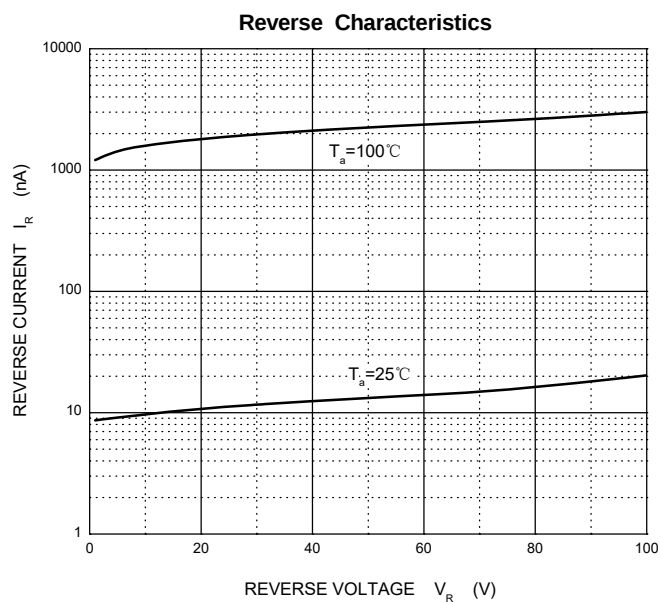
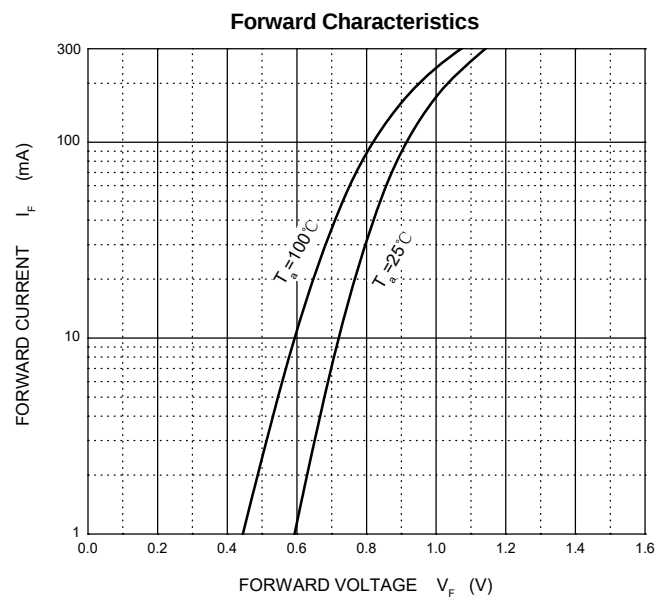
MAXIMUM RATINGS @ (T_a=25°C unless otherwise noted)

Symbol	Parameter	Limits	Unit
V _{RRM}	Repetitive Peak Reverse Voltage	85	V
V _R	Reverse Voltage	75	V
I _F	Forward Current	150	mA
I _{FRM}	Repetitive Peak Forward Current	450	
I _{FSM}	Non-Repetitive Peak Forward Surge Current @ t=8.3ms	2.5	A
P _D	Power Dissipation	200	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	625	°C/W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

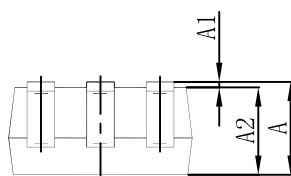
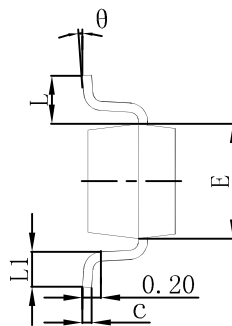
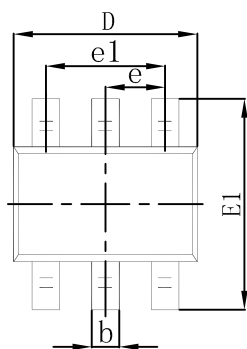
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	I _R =100μA	75			V
Reverse current	I _R	V _R =75V			1	μA
Forward voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	
		I _F =50mA			1	
		I _F =150mA			1.25	
Total capacitance	C _{tot}	V _R =0, f=1MHz			1.5	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω			6	ns

Typical Characteristics

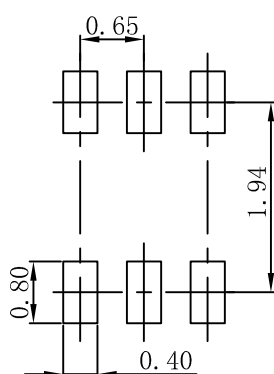


SOT-363 Package Outline Dimensions



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°

SOT-363 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.

NOTICE

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