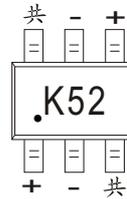


Plastic-Encapsulate Diodes

Multi-Chip Diode

FEATURES

- Surface Mount Package Ideally Suited for Automatic Insertion
- Very Low Leakage Current



MARKING:K52

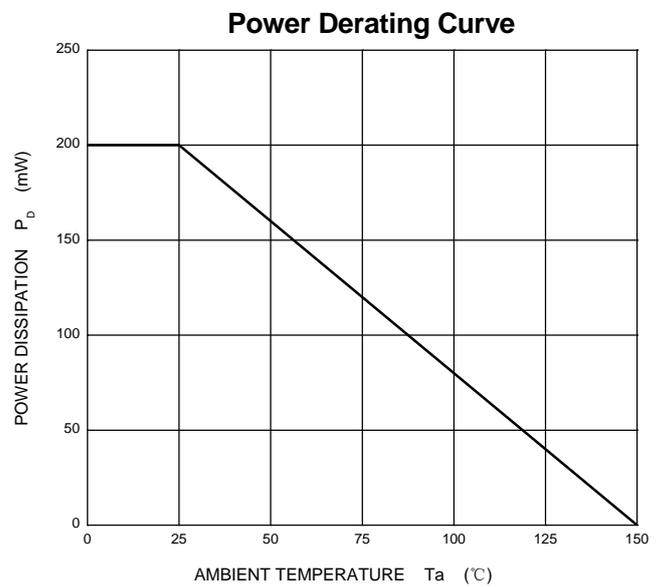
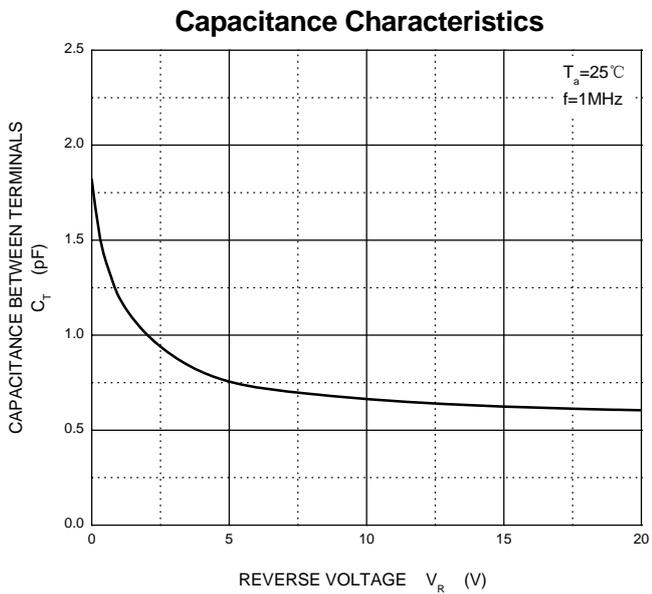
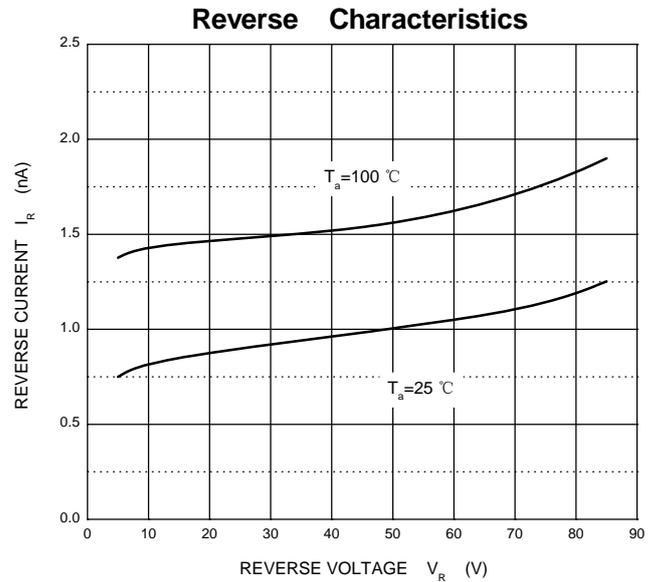
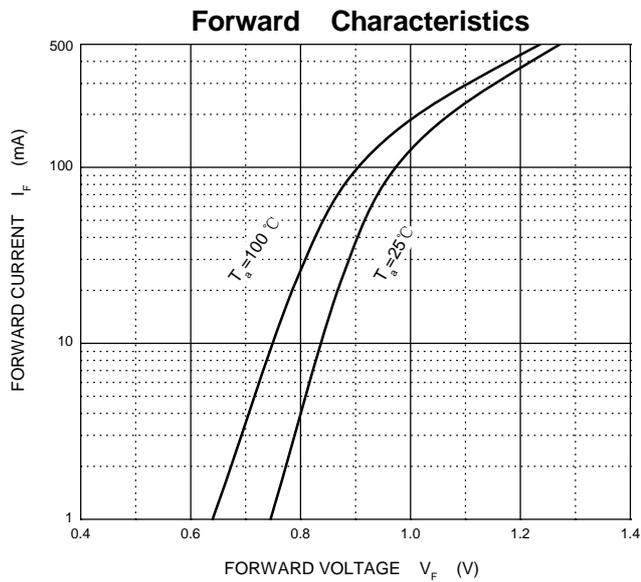
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25 °C

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	85	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Reverse Voltage	85	V
I_O	Average Rectified Output Current	160	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	1	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	85			V
Reverse voltage leakage current	I_R	$V_R=75V$			5	nA
Forward voltage	V_F	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$			0.9 1.0 1.1 1.25	V
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$		2		pF
Reveres recovery time	t_{rr}	$I_F=I_R=10mA$ $I_{tr}=0.1I_R, R_L=100\Omega$			3	μs

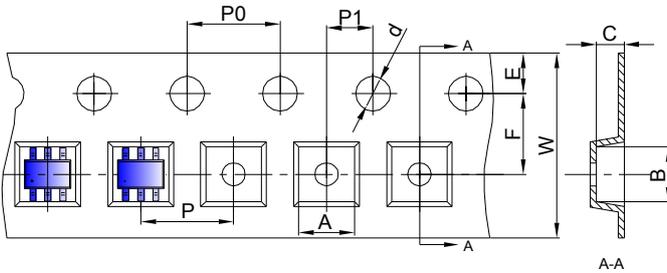
Typical Characteristics



SOT-363 Tape and Reel

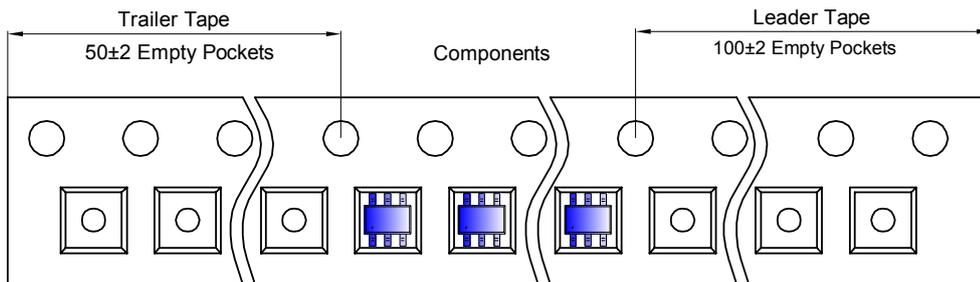
SOT-363 Tape and reel

SOT-363 Embossed Carrier Tape

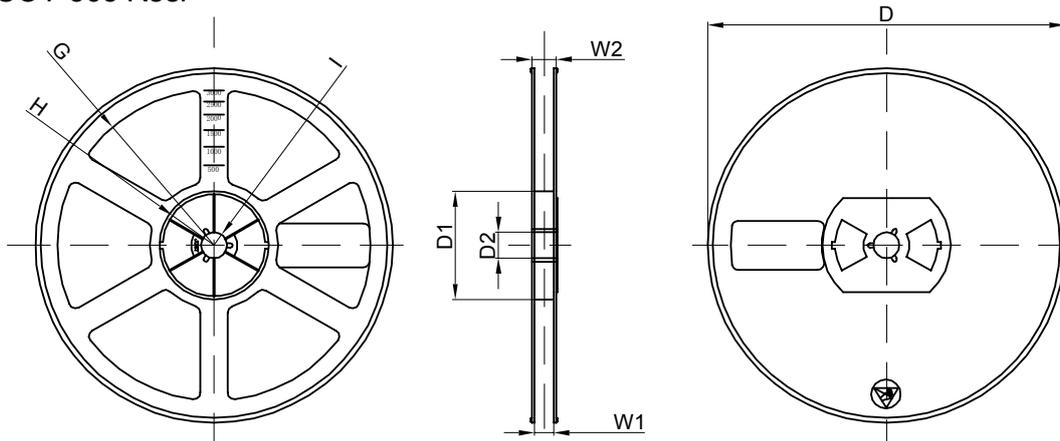


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-363	2.25	2.55	1.20	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-363 Tape Leader and Trailer

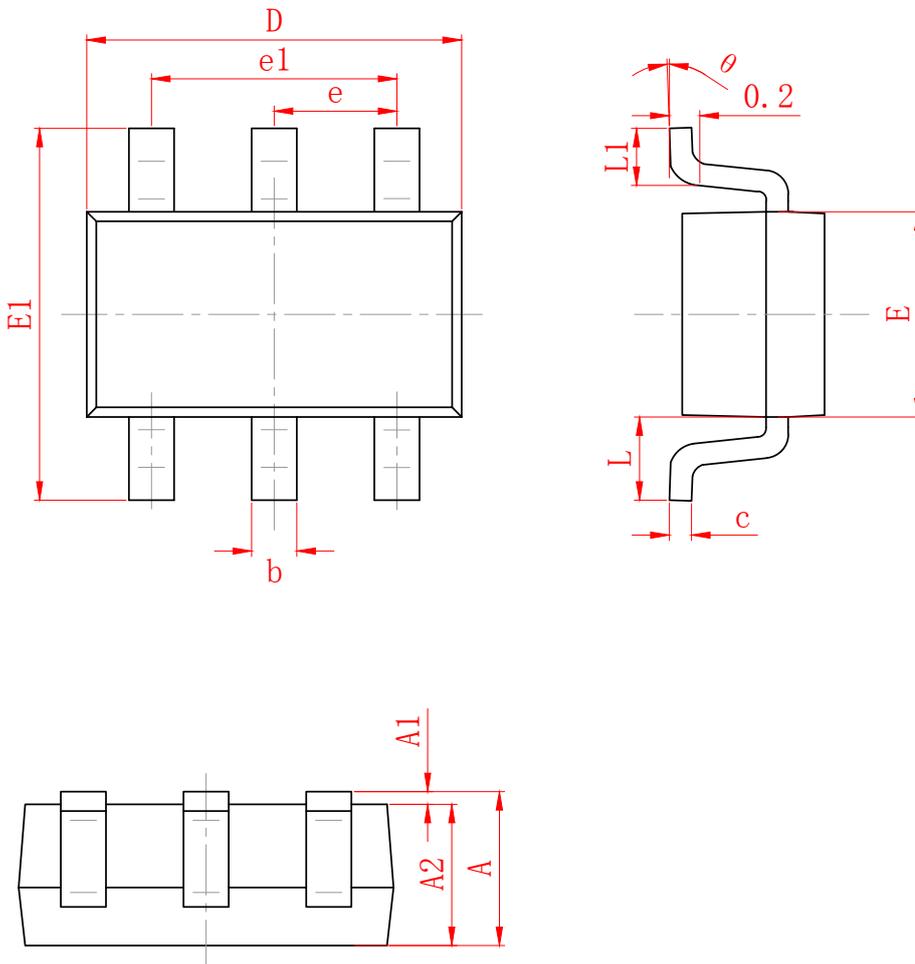


SOT-363 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.150	0.350
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
θ	0°	8°

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