

### Plastic-Encapsulate Diodes

SCHOTTKY BARRIER DIODE

#### FEATURES

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



MARKING: BRA



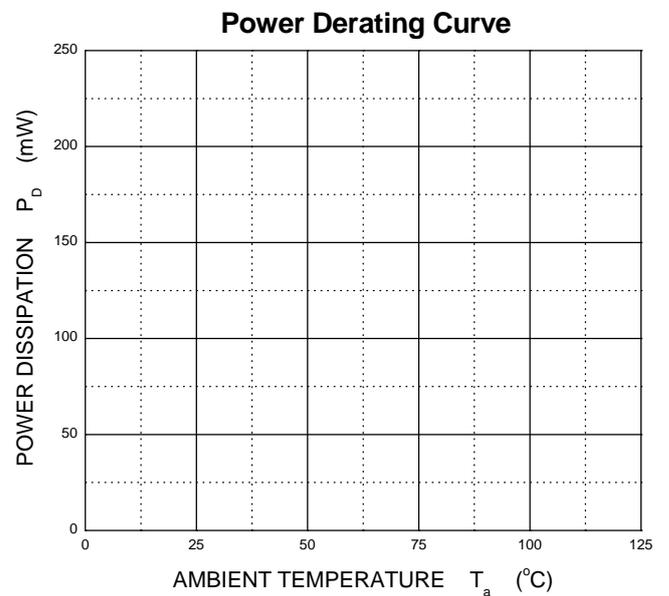
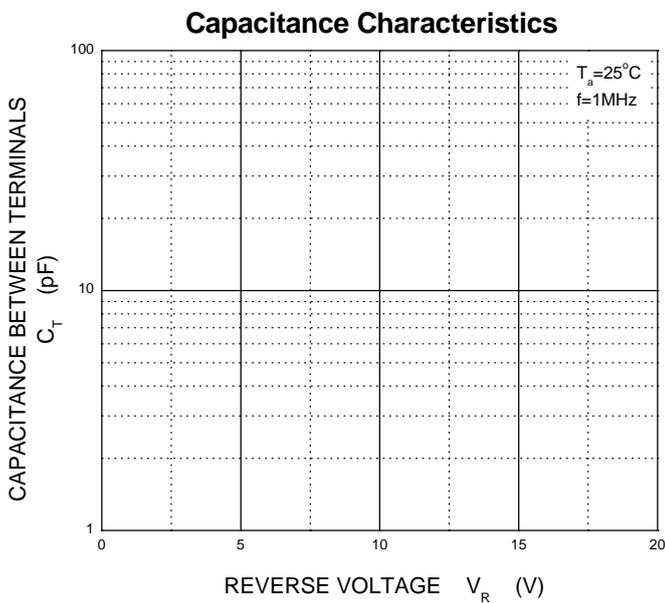
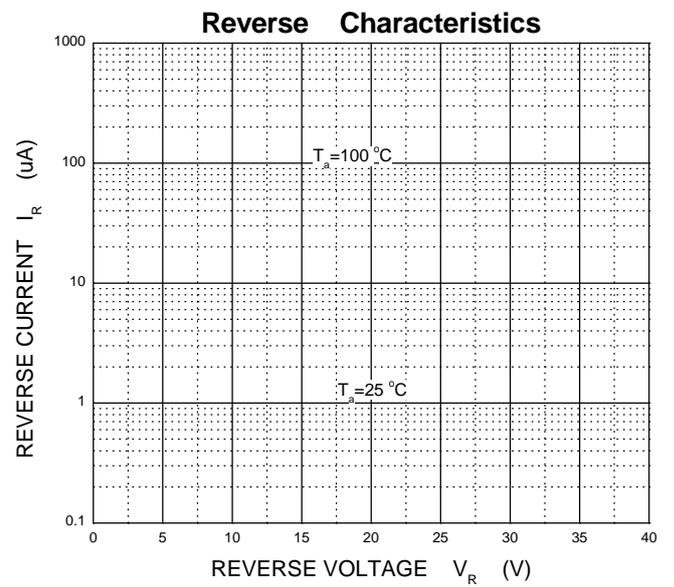
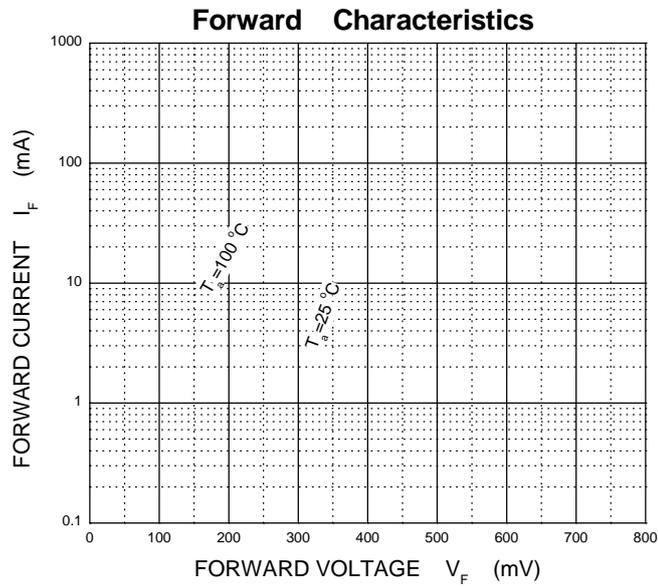
#### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

		Limit	Unit
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current	$I_{FM}$	350	mA
Average Rectified Current	$I_o$	175	mA
Non-repetitive Peak Forward Surge Current@t=8.3ms	$I_{FSM}$	2	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{STG}$	-55~+150	°C

#### Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	40			V	$I_R=100\mu A$
Forward voltage	$V_F$			0.37 0.50	V	$I_F=20mA$ $I_F=100mA$
Reverse current	$I_R$			2.0 5.0	$\mu A$	$V_R=10V$ $V_R=30V$
Capacitance between terminals	$C_T$		50		pF	$V_R=0V, f=1.0MHz$
Reverse recovery time	$t_{rr}$		10		ns	$I_F=I_R=200mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

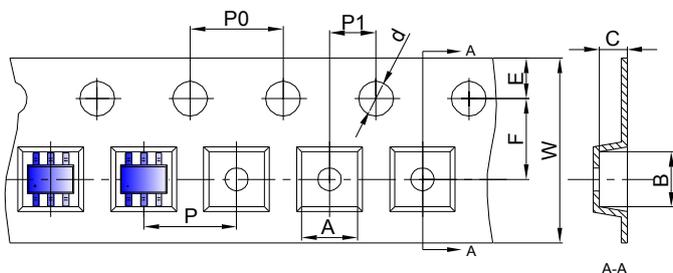
## Typical Characteristics



## SOT-363 Tape and Reel

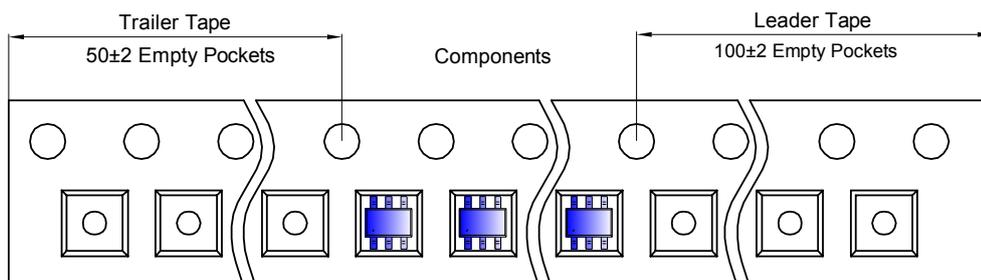
### SOT-363 Tape and reel

SOT-363 Embossed Carrier Tape

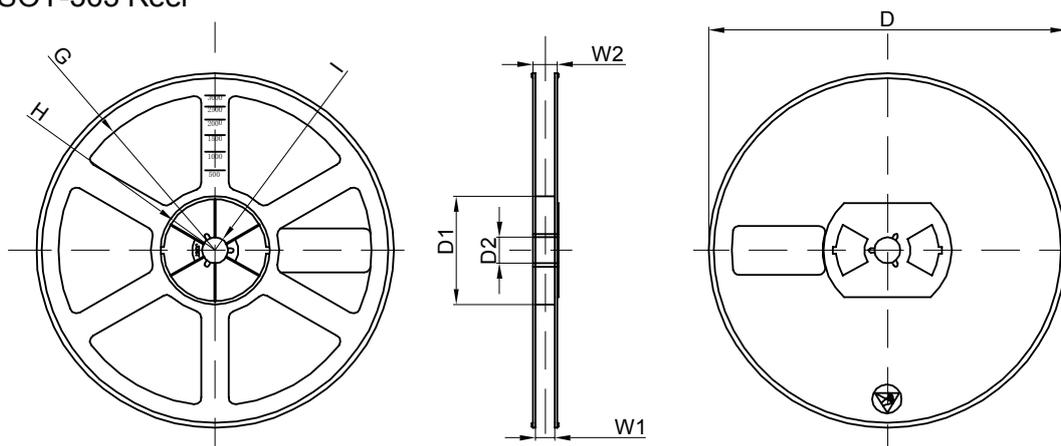


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-363	2.25	2.55	1.20	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-363 Tape Leader and Trailer

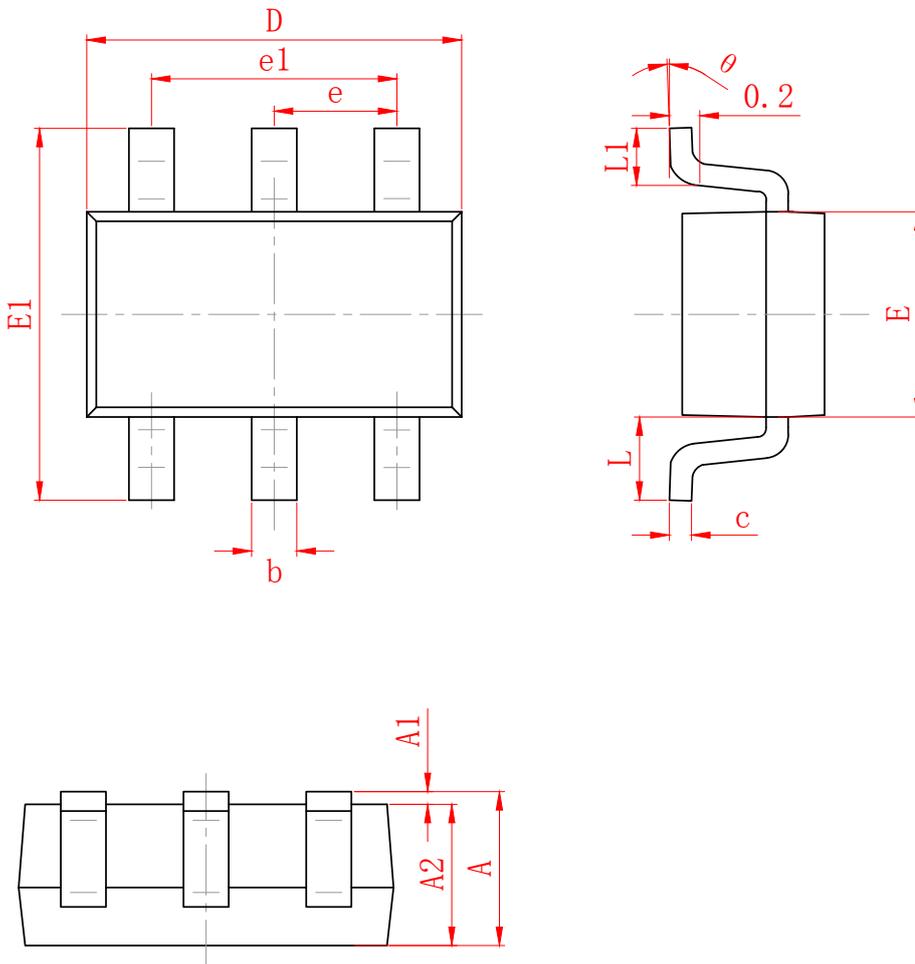


### SOT-363 Reel



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
$\theta$	0°	8°

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