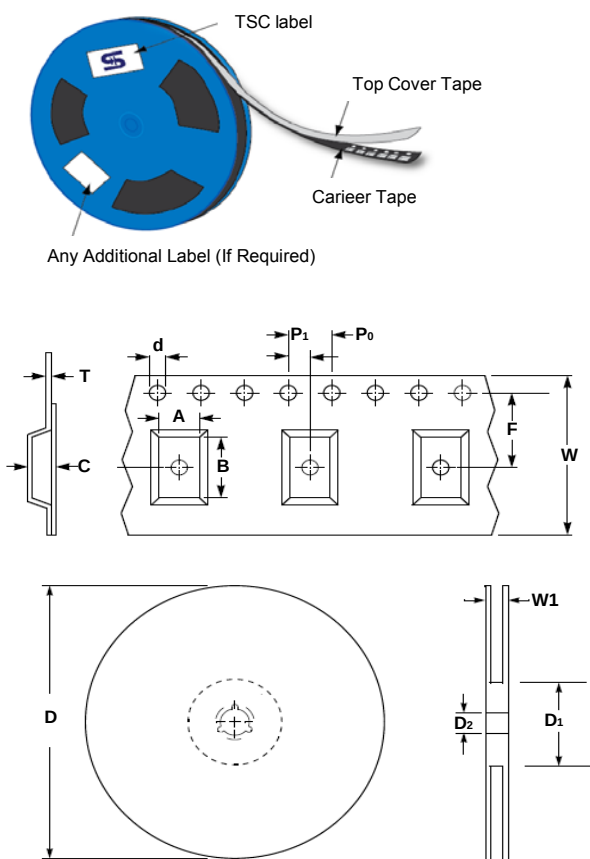


Small Signal Diode

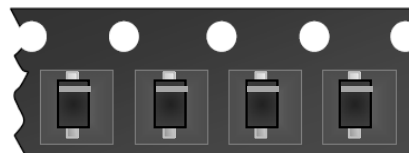
Electrical Characteristics

Type Number		Symbol	B0520LW	B0530W	B0540W	Units
Reverse Breakdown Voltage (Minimum value)	$I_R = 250\mu A$	$V_{(BR)}$	20	-	-	V
	$I_R = 130\mu A$		-	30	-	
	$I_R = 20\mu A$		-	-	40	
Forward Voltage (Maximum value)	$I_F = 100mA$ $T_J = 25^\circ C$	V_F	0.300	0.375	-	V
	$I_F = 500mA$ $T_J = 25^\circ C$		0.385	0.430	0.510	
	$I_F = 1000mA$ $T_J = 25^\circ C$		-	-	0.620	
	$I_F = 100mA$ $T_J = 100^\circ C$		0.220	-	-	
	$I_F = 500mA$ $T_J = 100^\circ C$		0.330	-	0.460	
	$I_F = 1000mA$ $T_J = 100^\circ C$		-	-	0.610	
Reverse Leakage Current (Maximum value)	$V_R = 10V$ $T_J = 25^\circ C$	I_R	75	-	-	μA
	$V_R = 15V$ $T_J = 25^\circ C$		-	20	-	
	$V_R = 20V$ $T_J = 25^\circ C$		250	-	10	
	$V_R = 30V$ $T_J = 25^\circ C$		-	130	-	
	$V_R = 40V$ $T_J = 25^\circ C$		-	-	20	
	$V_R = 10V$ $T_J = 100^\circ C$		5	-	-	
	$V_R = 20V$ $T_J = 100^\circ C$		8	-	5	
	$V_R = 40V$ $T_J = 100^\circ C$		-	-	13	
Junction Capacitance	$V_R = 0V$, $f = 1.0MHz$	C_J	170			pF

Tape & Reel specification



Item	Symbol	Dimension
Carrier width	A	1.85 ± 0.10
Carrier length	B	3.94 ± 0.10
Carrier depth	C	1.50 ± 0.10
Sprocket hole	d	1.5 ± 0.1
Reel outside diameter	D	178 ± 1
Reel inner diameter	D1	55 Min
Feed hole width	D2	13.0 ± 0.20
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.05
Sprocket hole pitch	P0	4.00 ± 0.10
Embossment center	P1	2.00 ± 0.05
Overall tape thickness	T	0.23 ± 0.05
Tape width	W	8.00 ± 0.20
Reel width	W1	14.4 Max



Small Signal Diode

Rating and Sharacteristic Curves

FIG 1 Typical Forward Characteristics

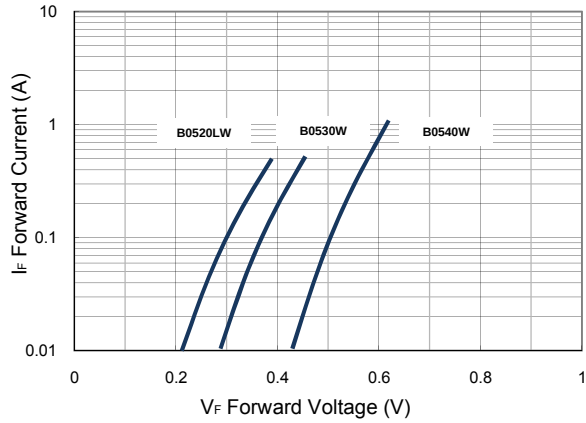


FIG 2 Forward Current Derating Curve

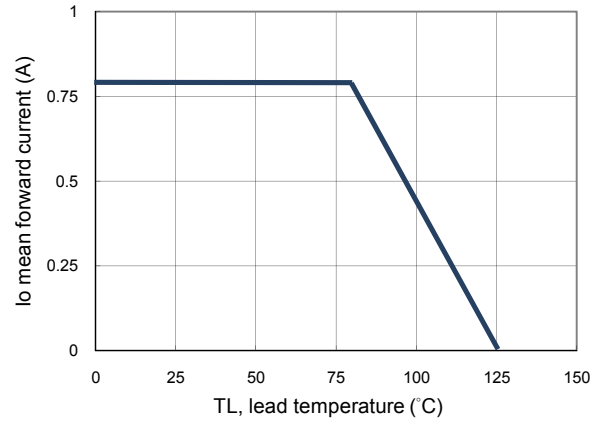


FIG 3 Admissible Power Dissipation Curve

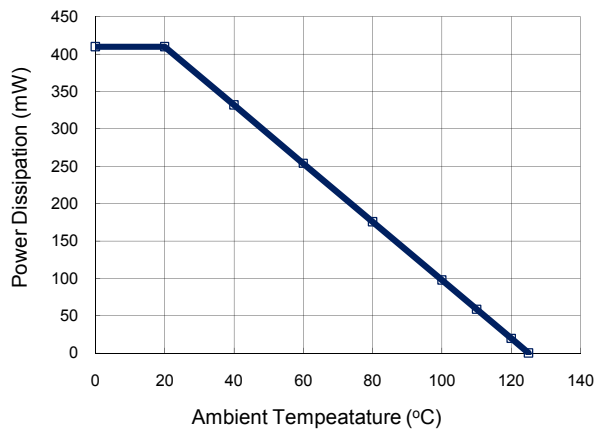


FIG 4 Typical Junction Capacitance

