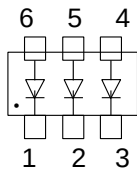
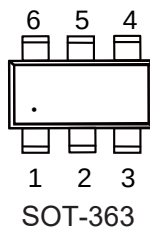


Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Low Forward Voltage Drop and Low Leakage Current
- Guard Ring Construction for Transient Protection
- Fast Switching
- Three Fully Isolated Schottky Diodes
- Halogen Free. "Green" Device (Note 1)

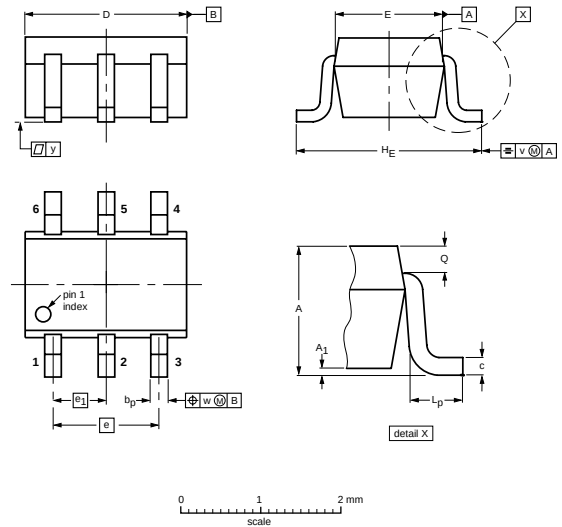


Schematic Diagram



SOT-363

SOT-363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A1 max	b _P	c	D	E	e	e ₁	H _E	L _P	Q	v	w	y
mm	1.1 0.8	0.1	0.30 0.20	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.25 0.15	0.2	0.2	0.1

Absolute Maximum Ratings (@ T_C = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Reverse Voltage	V _R	40	V
Average Forward Rectified Current	I _{F(AV)}	350	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s	I _{FSM}	2	A
Power Dissipation	P _{tot}	200	mW
Operating and Storage Temperature Range	T _j , T _{stg}	- 65 to + 125	°C

SD103ATW

Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 10\mu\text{A}$	$V_{(BR)R}$	40	-	-	V
Reverse Leakage Current at $V_R = 30\text{V}$	I_R	-	-	5	μA
Forward Voltage at $I_F = 20\text{ mA}$ at $I_F = 200\text{ mA}$	V_F	- -	- -	0.37 0.6	V
Total Capacitance at $V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_T	-	50	-	pF
Reverse Recovery Time at $I_F = I_R = 200\text{ mA}$, $I_{rr} = 0.1 I_R$, $R_L = 100\text{ }\Omega$	t_{rr}	-	10	-	ns

RATING AND CHARACTERISTIC CURVES (SD103ATW)

