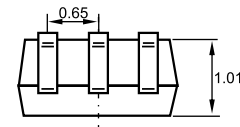
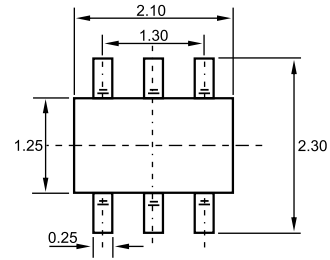


SOT-363



Dimensions in inches and (millimeters)

Features

- ✧ Low forward voltage drop.
- ✧ Guard ring construction for transient protection.
- ✧ Fast switching.
- ✧ Low leakage current.
- ✧ Three fully isolated schottky diodes.
- ✧ Also available in lead free version.

Applications

- ✧ High speed switching.

Ordering Information

Type No.	Marking	Package Code
SD103ATW	KLL	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V_{RRM}	Peak Repetitive reverse Voltage	40	V
V_{RWM}	Working peak reverse voltage		
V_R	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse Voltage	28	V
I_{FM}	Forward continuous current (max.)	350	mA
I_O	Average rectified current	175	mA
I_{FSM}	Non-Repetitive peak forward surge current @t ≤10ms	1.0	A
$R_{\theta JA}$	Thermal resistance, Junction to ambient air	500	°C/W
P_D	Power Dissipation	200	mW
T_j, T_{stg}	Junction and Storage Temperature	-55 to+125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$	40		-	V
Average reverse current	I_R	$V_R=10V$ $V_R=30V$		0.2 0.4	2.0 5.0	μA
Forward voltage	V_F	$I_F=1mA$ $I_F=5mA$ $I_F=20mA$ $I_F=100mA$	-	0.27 0.32 0.36 0.44	0.37 0.50	V
Total Capacitance	C_T	$V_R=0V, f=1.0MHz$	-	50	-	pF
Reverse recovery time	t_{rr}	$I_F=I_R=200mA, I_{rr}=0.1*I_R$ $R_L=100\Omega$	-	10	-	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

