

Surface Mount Schottky Barrier Diodes Arrays

Pb Lead(Pb)-Free

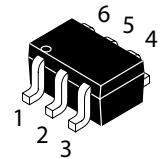
Features:

- * Extremely Fast Switching Speed.
- * Low Forward Voltage.
- * Very Small Conduction Losses.
- * PN Junction Guard Ring for Transient and ESD Protection.

Mechanical Data:

- * Case: SOT-363, Molded plastic.
- * Terminals: Solderable per MIL-STD-202, Method 208.
- * Marking: See Diagrams Below & Page 3.
- * Weight: 0.006 grams(approx).

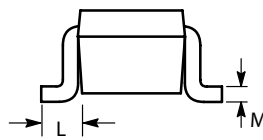
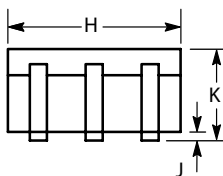
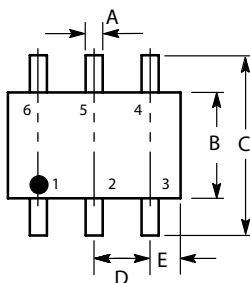
**SMALL SIGNAL
SCHOTTKY DIODES
200m AMPERES
30 VOLTS**



SOT-363(SC-88)

SOT-363 Outline Dimensions

Unit:mm



SOT-363		
Dim	Min	Max
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	0.65 REF	
E	0.30	0.40
H	1.80	2.20
J	-	0.10
K	0.80	1.10
L	0.25	0.40
M	0.10	0.25

Maximum Ratings (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RMW} V _R	30	V
Average Rectifier Forward Current	I _{F(AV)}	200	mA
Peak Repetitive Forward Current Rated V _R , Square Wave, 20KHz	I _{FRM}	300	mA
Non-Repetitive Forward Current(t≤1.0s)	I _{FSM}	600	mA
Power Dissipation	P _d	200	mw
Thermal Resistance, Junction to Ambient Air	R _{θJA}	625	°C/W
Operating Junction Temperature Range	T _J	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

Electrical Characteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage (I _R =10μA)	V(BR)R	30			Volts
Forward Voltage I _F =0.1mA I _F =1.0mA I _F =10mA I _F =30mA I _F =100mA	V _F		0.22 0.29 0.35 0.41 0.52	0.24 0.32 0.40 0.50 1.00	Volts
Total Capacitance (V _R =1.0V, f=1.0MHz)	C _T		7.6	10	Pf
Reverse Leakage V _R =25V	I _R		0.5	2.0	uAdc
Reverse Recover Time I _F =I _R =10mA, I _R (Rec)=1.0mA	T _{rr}			5.0	nS

Device Marking

Item	Marking	Equivalent Circuit diagram
BAT54TDW	KL5	
BAT54ADW	KL6	
BAT54CDW	KL7	
BAT54SDW	KL8	

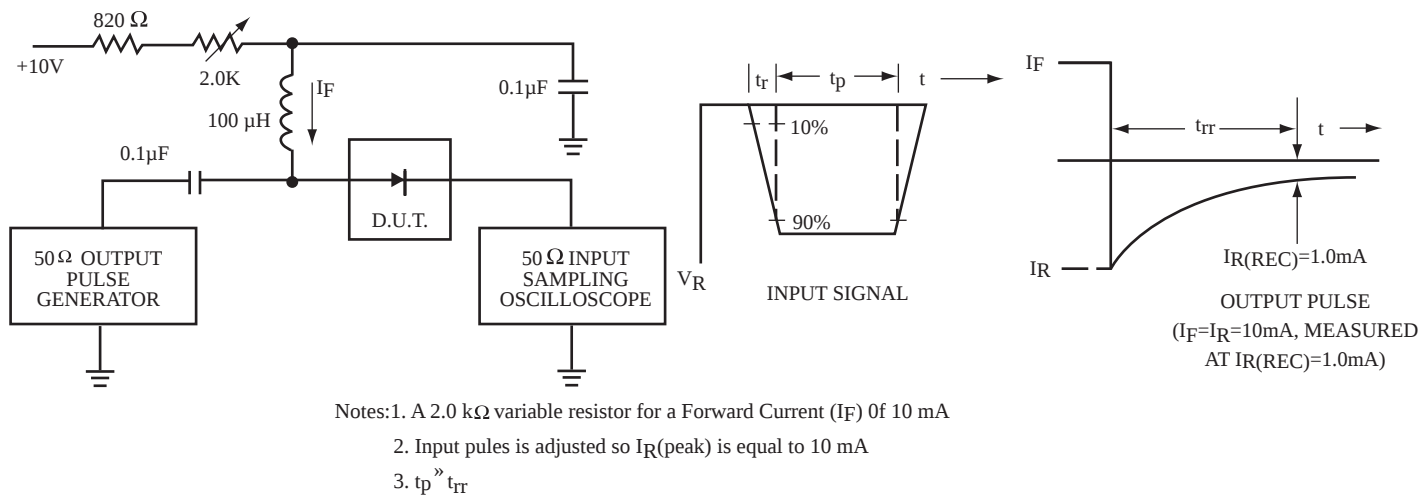


FIG.1 Recovery Time Equivalent Test Circuit

