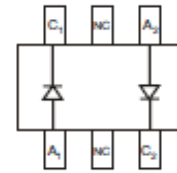


Surface Mount Schottky Barrier Diodes

BAT54DW

FEATURES

- Low forward voltage drop.
- Fast switching.
- Ultra-small surface mount package.
- PN Junction guard ring for transient and ESD protection.
- Available in lead free version.



SOT-363

APPLICATIONS

- High speed switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAT54DW	KLD	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V _{RRM} V _{RWM} V _R	Repetitive peak reverse Voltage Working peak reverse voltage DC reverse voltage	30	V
I _O	Average Rectified Forward Current	100	mA
I _{FRM}	Repetitive peak forward current	300	mA
I _{FSM}	Forward surge current @t<1.0s	0.6	A
P _D	Power Dissipation	200	mW
R _{θJA}	Thermal resistance, Junction to ambient air	625	°C/W
T _j , T _{stg}	Operating and Storage Temperature	-65 to +125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

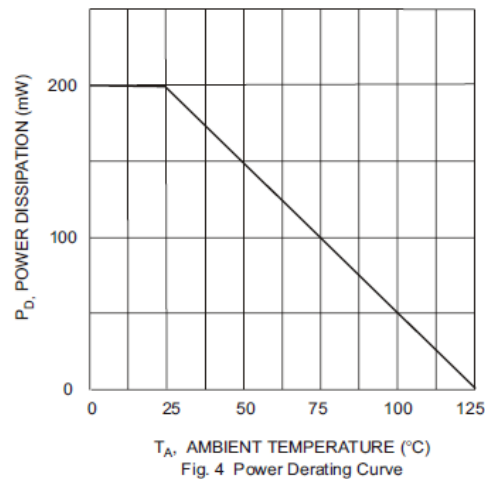
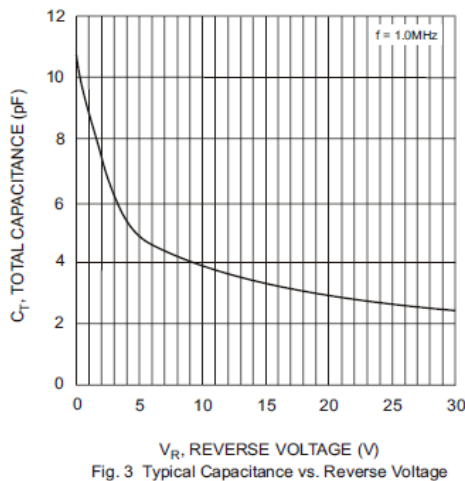
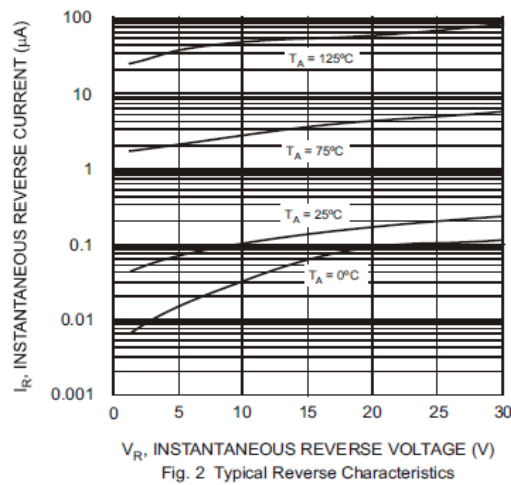
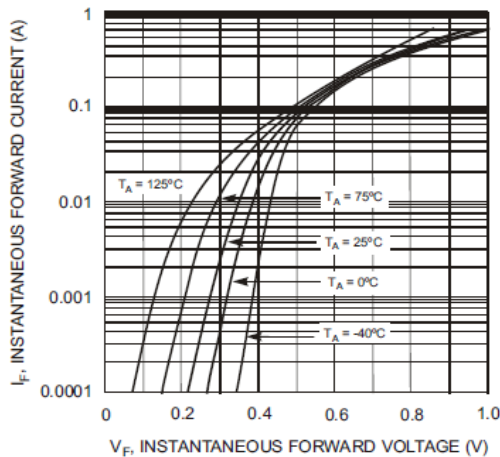


Surface Mount Schottky Barrier Diodes

BAT54DW

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$	30		V
Average reverse current	I_R	$V_R=25V$		2.0	μA
Forward voltage	V_F	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$		0.24 0.32 0.4 0.5 1	V
Total Capacitance	C_T	$V_R=1.0V, f=1.0MHz$		10	pF
Reverse Recovery time	t_{rr}	$I_F=10mA$ through $I_R=10mA$ to $I_R=1.0mA, R_L=100\Omega$		5.0	ns

TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified



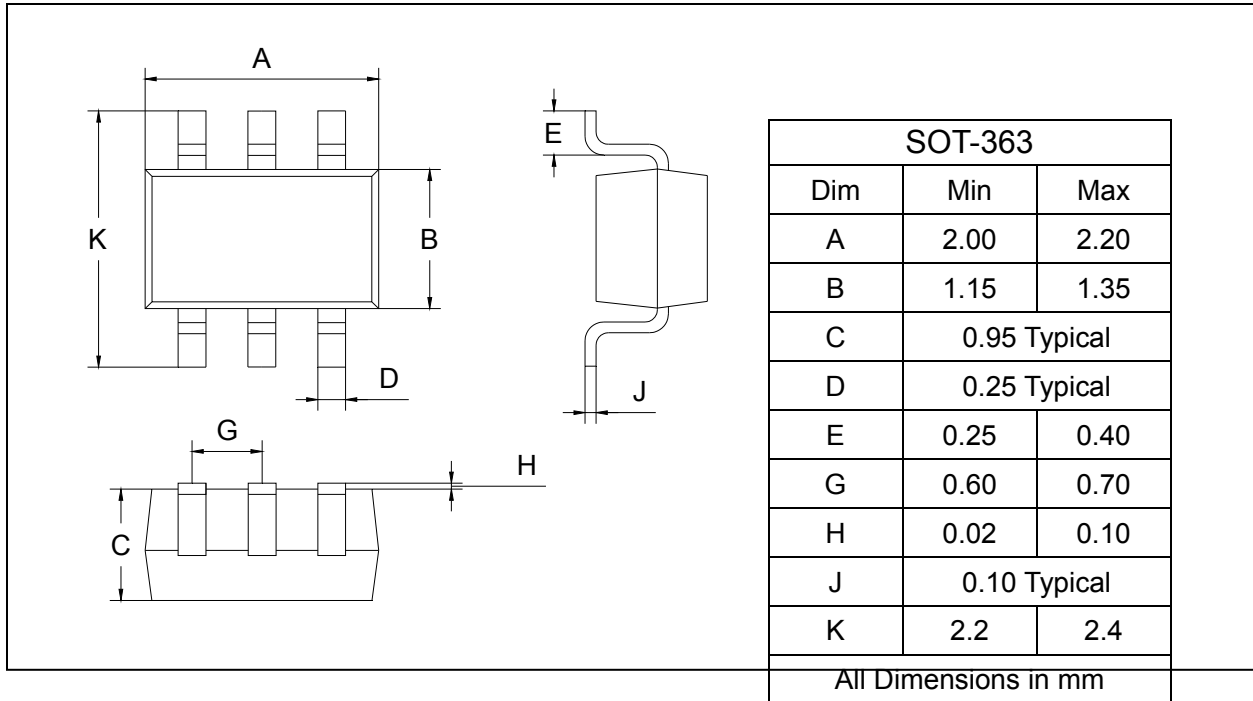
PACKAGE OUTLINE

Surface Mount Schottky Barrier Diodes

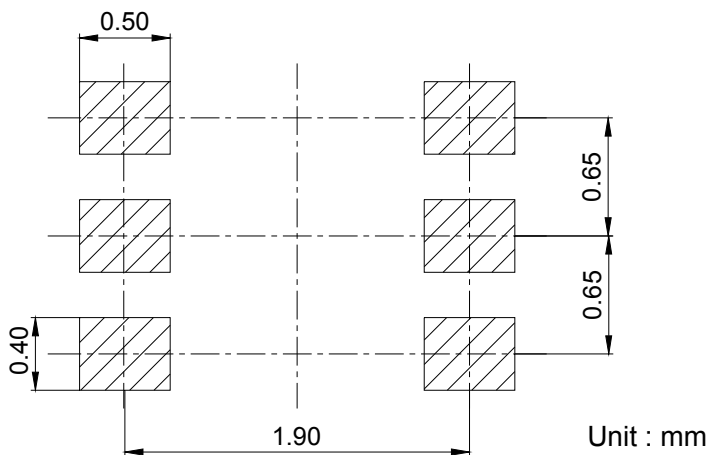
BAT54DW

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAT54DW	SOT-363	3000/Tape&Reel