

Surface Mount Schottky Barrier Diodes

BAT54TW/ADW/CDW/SDW/BRW

FEATURES

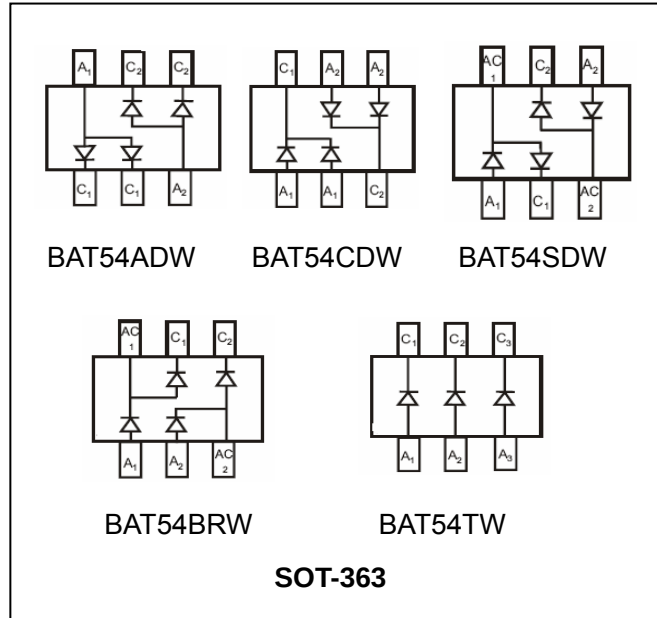
- Low forward voltage drop.
- Fast switching.
- Ultra-small surface mount package.
- PN Junction guard ring for transient and ESD protection.
- Available in lead free version.



APPLICATIONS

- High speed switching application.

ORDERING INFORMATION



Type No.	Marking	Package Code
BAT54TW	KL A	SOT-363
BAT54ADW	KL 6	SOT-363
BAT54CDW	KL 7	SOT-363
BAT54SDW	KL 8	SOT-363
BAT54BRW	KL B	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_F	Forward continuous current	200	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
$R_{\theta JA}$	Thermal resistance, Junction to ambient air	625	°C/W
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	°C

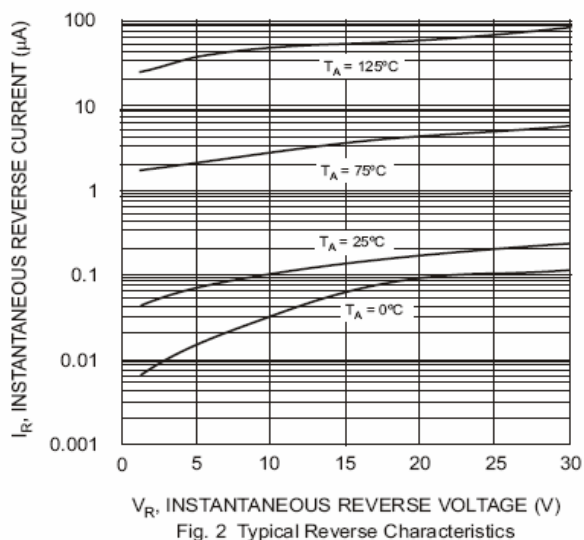
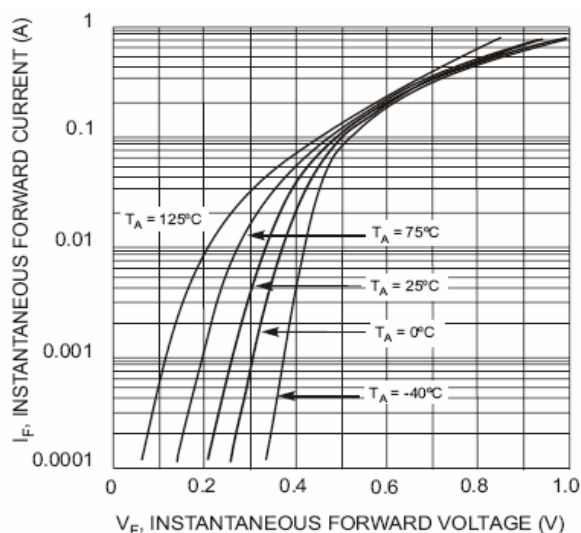
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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$	-	240 320 400 500 1000	mV
Total Capacitance	C_T	$V_R=1.0V, f=1.0MHz$	-	10	pF
Reverse Recovery time	t_{rr}	$I_F=I_R=10mA, R_L=100\Omega$	-	5.0	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



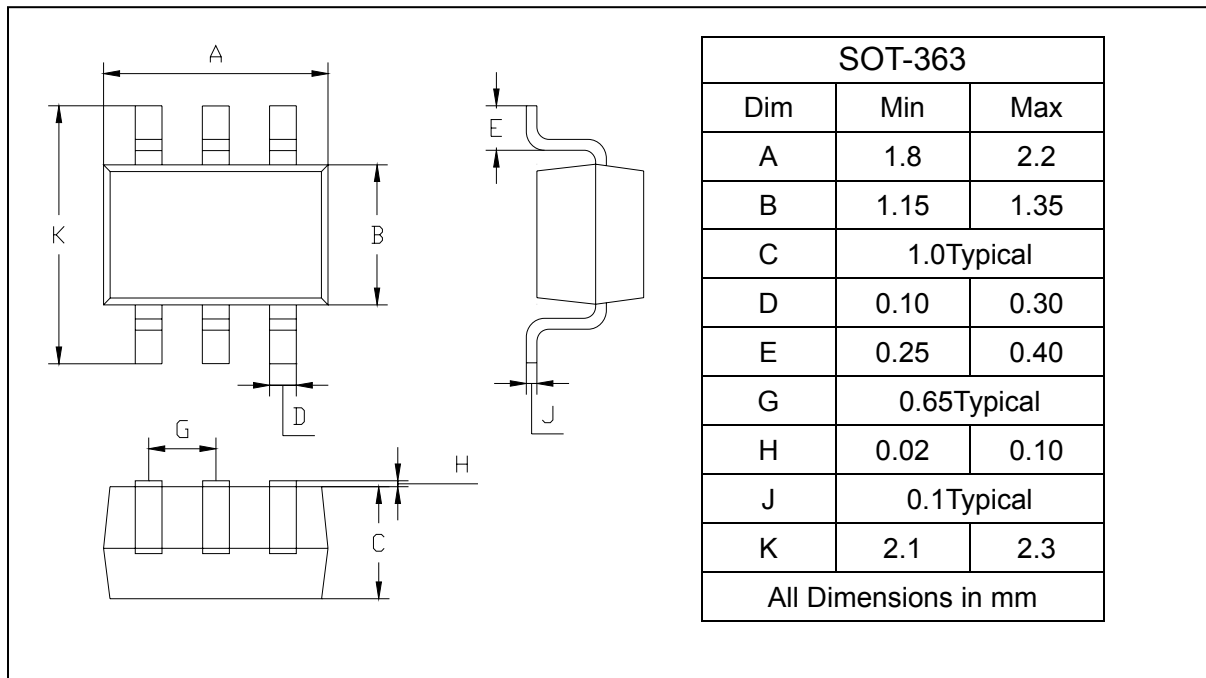
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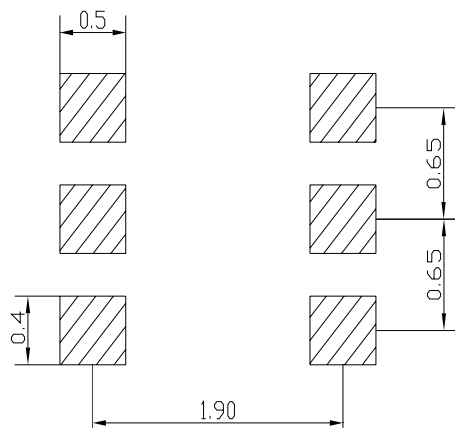
PACKAGE OUTLINE

Plastic surface mounted package

SOT-363



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAT54TW/BAT54ADW/BAT54CDW BAT54SDW/BAT54BRW	SOT-363	3000/Tape&Reel