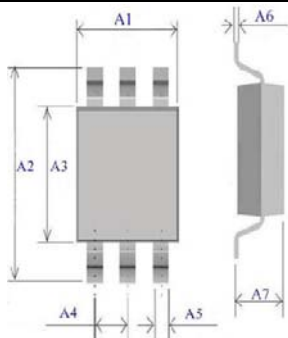


200mA SURFACE MOUNT SCHOTTKY BARRIER



DIM	MILLIMETERS		INCHES	
	MAX	MIN	MAX	MIN
A1	2.200	1.800	0.087	0.071
A2	2.450	2.000	0.096	0.079
A3	1.350	1.150	0.053	0.045
A4	0.65 BSC.		0.026 BSC.	
A5	0.350	0.100	0.014	0.004
A6	0.150	0.080	0.006	0.003
A7	1.100	0.800	0.043	0.031

CASE : SOT-363

DIMENSIONS IN MILLIMETERS AND (INCHES)

FEATURES

- FAST SWITCHING SPEED
- LOW TURN-ON VOLTAGE
- PN JUNCTION GUARD RING FOR TRANSIENT AND ESD PROTECTION

MECHANICAL DATA

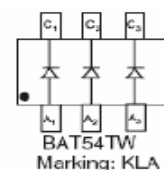
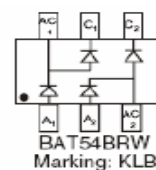
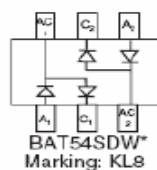
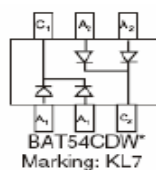
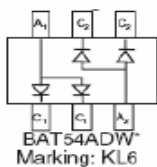
- CASE : SOT-363, PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD208
- APPROX. WEIGHT: 0.0052 GRAM
- Pb-Free: : BAT54TW/BAT54ADW/BAT54CDW/BAT54SDW/BAT54BRW
Halogen Free : BAT54TW-H/BAT54ADW-H/BAT54CDW-H/BAT54SDW-H/BAT54BRW-H

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	BAT54T W	BAT54AD W	BAT54CD W	BAT54SD W	BAT54BR W	UNITS
PEAK REPETITIVE REVERSE VOLTAGE	V_{RRM}	30					V
MAXIMUM AVERAGE FORWARD CURRENT AT $T_a=75^\circ\text{C}$	I_O	200					mA
PEAK FORWARD SURGE CURRENT, 1.0s (JEDEC METHOD)	I_{FSM}	0.6					A
POWER DISSIPATION	P_d	200					m/W
JUNCTION TEMPERATURE	T_j	125					$^\circ\text{C}$
STORAGE TEMPERATURE	T_{STG}	- 55 TO +150					$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	BAT54T W	BAT54AD W	BAT54CD W	BAT54SD W	BAT54BR W	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE @ $I_F=0.1\text{mA}$ @ $I_F=1\text{mA}$ @ $I_F=10\text{mA}$ @ $I_F=30\text{mA}$ @ $I_F=100\text{mA}$	V_F	240 320 400 500 1000					mV
MAXIMUM DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE @ $V_R=25\text{V}$	I_R	2.0					μA
TOTAL CAPACITANCE: AT $V_R=1\text{V}$ $f=1\text{MHZ}$	C_T	10					pF



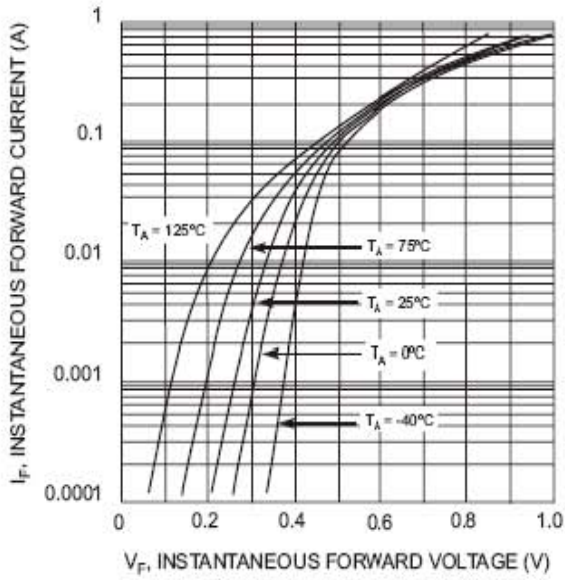


Fig. 1 Forward Characteristics

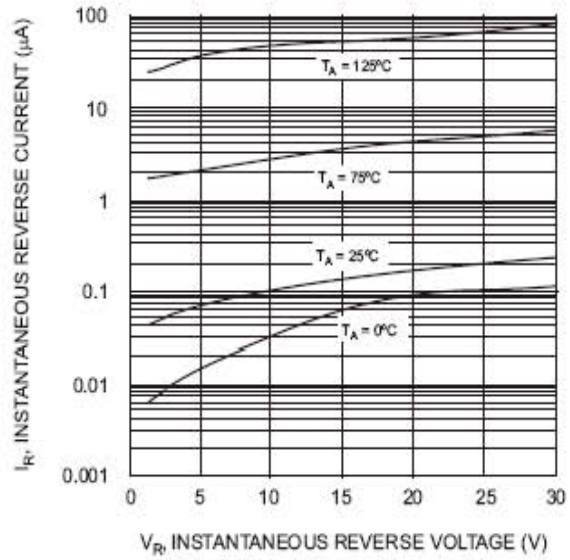


Fig. 2 Typical Reverse Characteristics

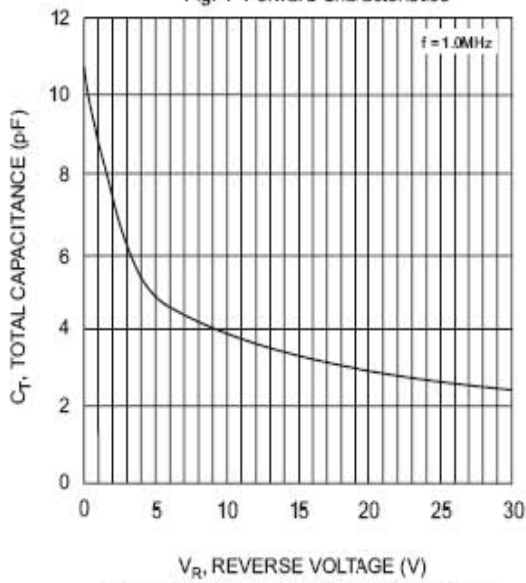


Fig. 3 Typical Capacitance vs. Reverse Voltage

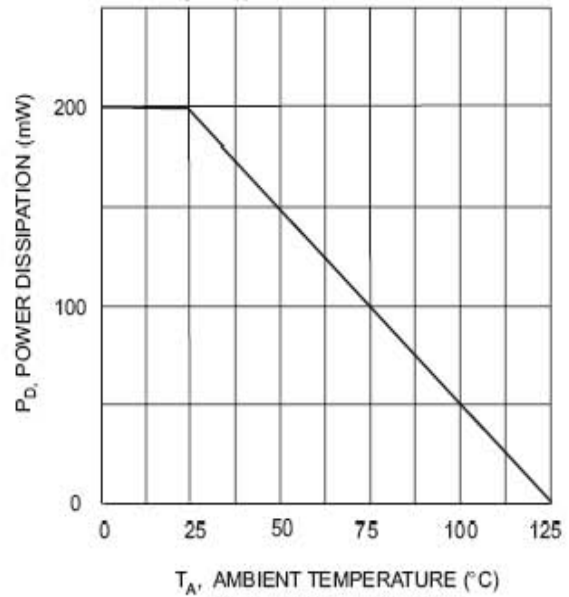


Fig. 4 Power Derating Curve