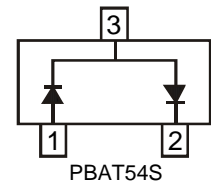
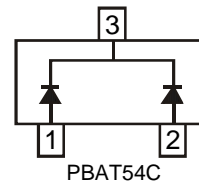
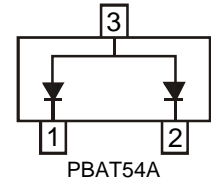
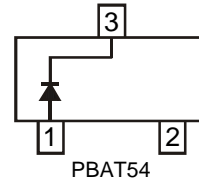


Features

- Low forward voltage
- Guard ring protected
- Small plastic SMD package

Applications

- Ultra high-speed switching
- Voltage clamping
- Protection circuits
- Blocking diodes.


Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- Qualified max reflow temperature:260 °C
- Device meets MSL 1 requirements
- Pure tin plating : 7 ~ 17 um
- Pin flatness : ≤3mil

Electrical characteristics per line@25 °C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.5	V	$I_F=200mA$
Reverse current	I_R	-	-	30	μA	$V_R=10V$

Absolute maximum rating@25 °C

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V_{RM}	30	V
Average rectified forward current	I_o	200	mA
Forward current surge peak (60Hz 1cyc)	I_{FSM}	1	A
Operating Junction temperature Range	T_j	-55 to 125	°C
Storage temperature	T_{stg}	-40 to +125	°C

Typical Characteristics

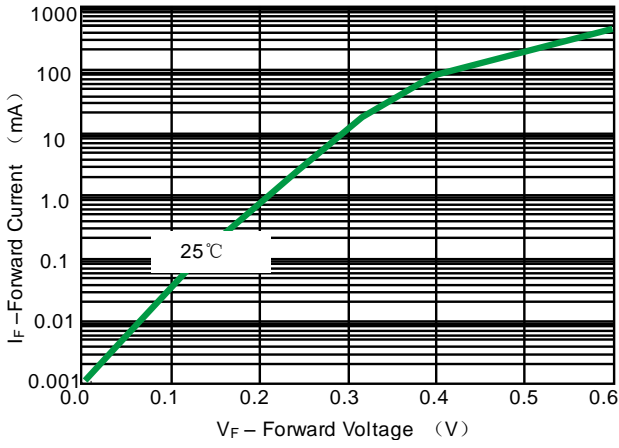


Fig 1. Forward Voltage

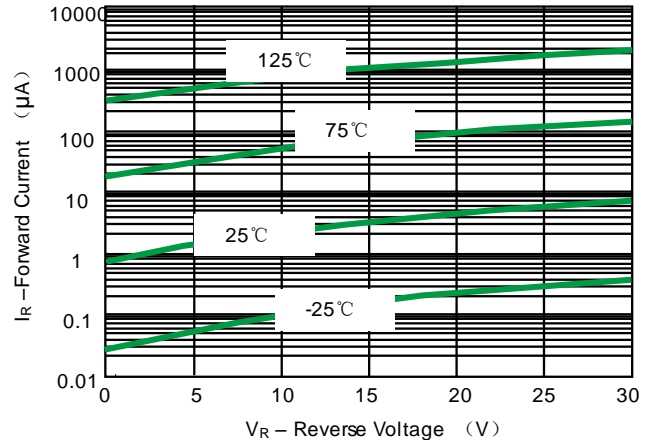


Fig 2. Leakage Current

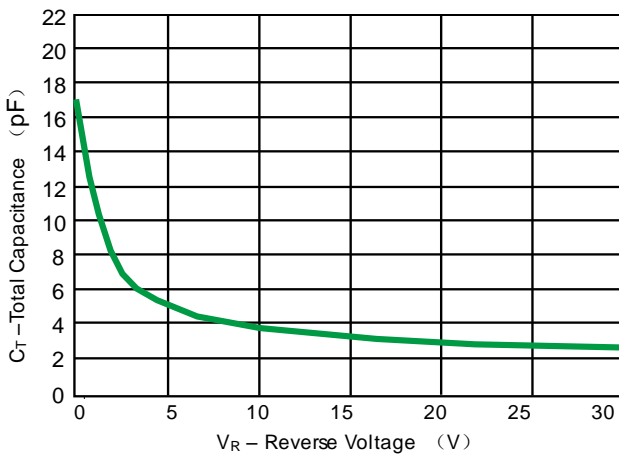
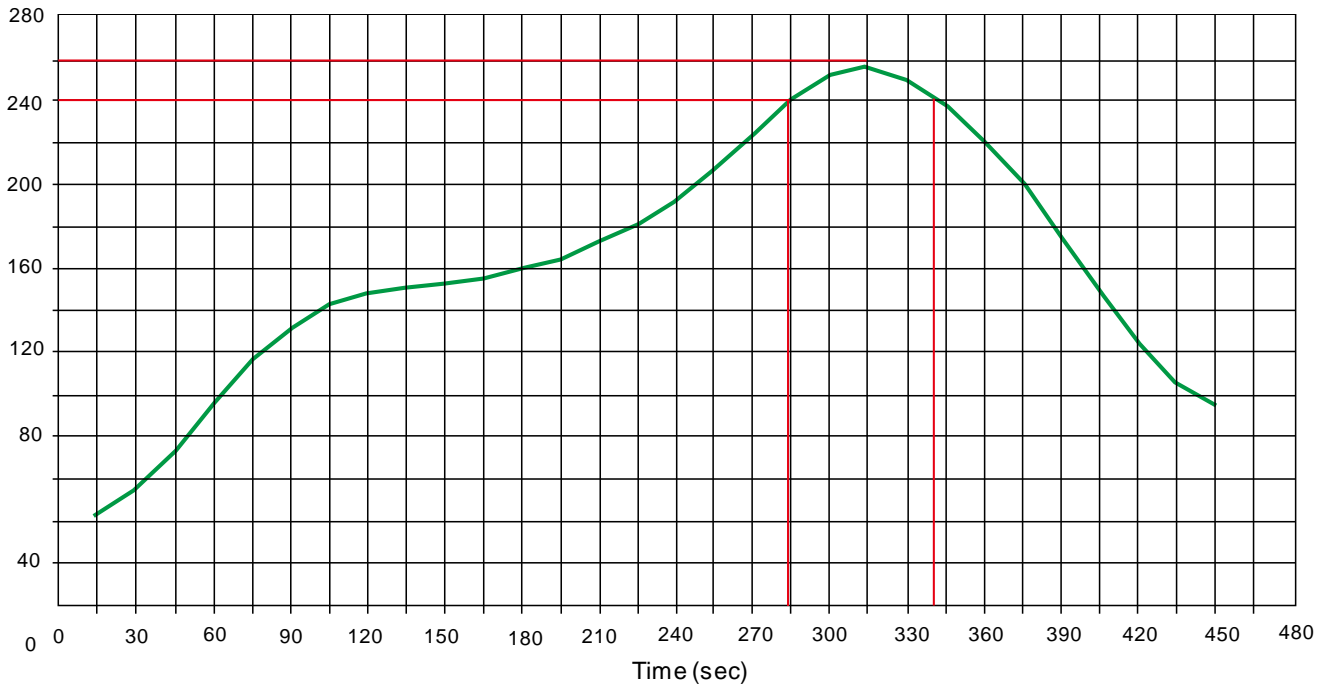


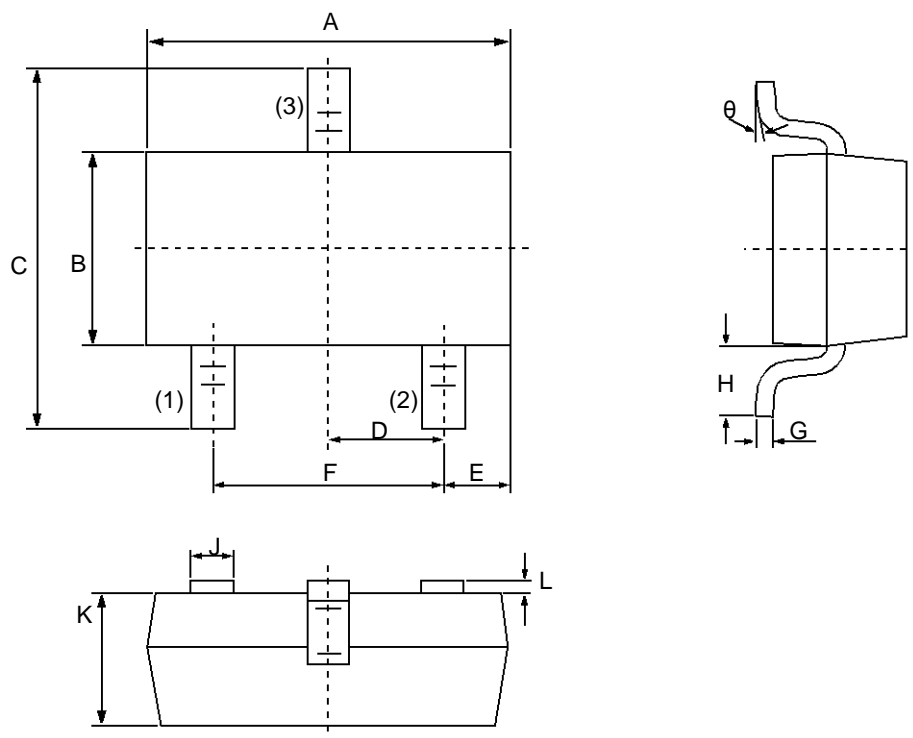
Fig 3. Total Capacitance

Solder Reflow Recommendation

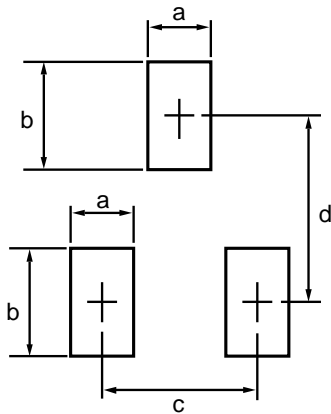
Peak Temp=257°C, Ramp Rate=0.802deg. °C/sec



Product dimension(SOT-23)




Dim	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	2.80	3.00	0.1102	0.1197
B	1.20	1.40	0.0472	0.0551
C	2.10	2.50	0.0830	0.0984
D	0.89	1.02	0.0350	0.0401
E	0.45	0.60	0.0177	0.0236
F	1.78	2.04	0.0701	0.0807
G	0.085	0.177	0.0034	0.0070
H	0.45	0.60	0.0180	0.0236
J	0.37	0.50	0.0150	0.0200
K	0.89	1.11	0.0350	0.0440
L	0.013	0.100	0.0005	0.0040
θ	0°	10°	0°	10°



Dim	Millimeters	
	MIN	MAX
a	--	0.7
b	--	1.2
c	--	2.04
d	--	2.2


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