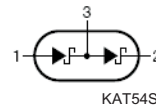
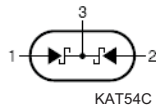
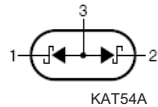
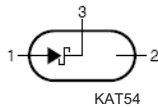
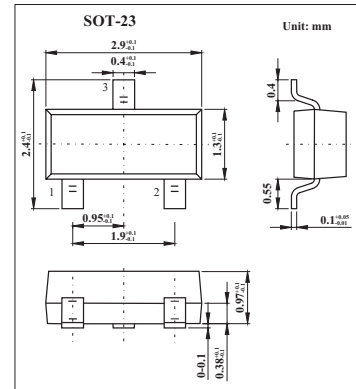


KAT54/A/C/S(BAT54/A/C/S)

■ Features

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



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V _{RRM}	30	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second	I _{FSM}	600	mA
Power Dissipation	P _D	290	mW
Thermal Resistance, Junction to Ambient	R _{θJA}	430	°C/W
Storage Temperature Range	T _{stg}	-55 to +150	°C
Operating Junction Temperature	T _J	150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Breakdown Voltage	V _R	I _R = 10 μA	30			V
Forward Voltage	V _F	I _F = 0.1 mA			240	mV
		I _F = 1 mA			320	mV
		I _F = 10 mA			400	mV
		I _F = 30 mA			500	mV
		I _F = 100 mA			1.0	V
Reverse Current	I _R	V _R = 25 V			2	μA
Total Capacitance	C _T	V _R = 1V, f = 1.0 MHz			10	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10 mA, I _{RR} = 1.0 mA, R _L = 100Ω			5	ns

■ hFE Classification

TYPE	KAT54	KAT54A	KAT54C	KAT54S
Marking	L4	L42 or WV3	L43 or WW1	L44 or WV4



KAT54/A/C/S(BAT54/A/C/S)

■ Typical Characteristics

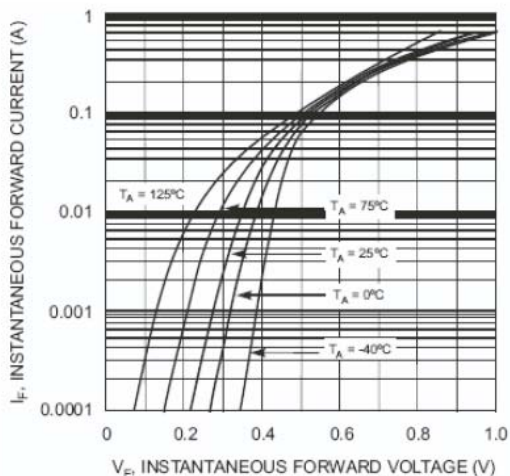


Fig.1 Forward Characteristics

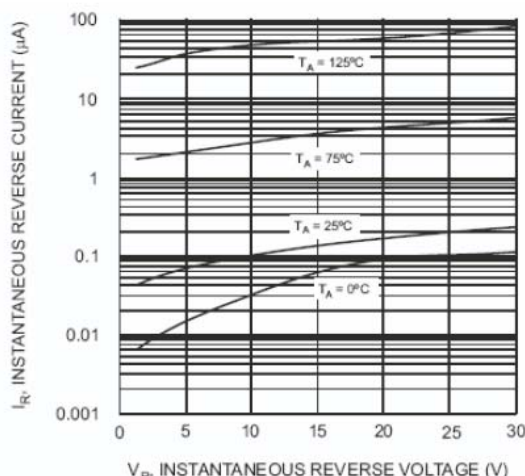


Fig.2 Typical Reverse Characteristics

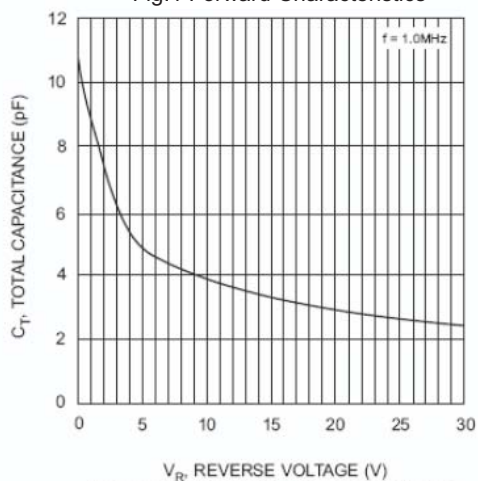


Fig.3 Typical Capacitance vs. Reverse Voltage

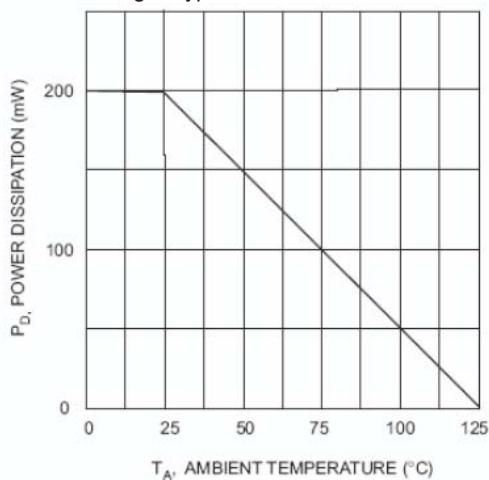


Fig.4 Power Derating Curve