

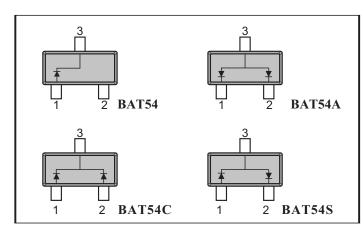
BAT54/A/C/S

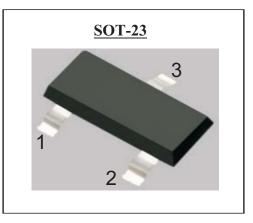
Reverse Voltage - 30 V Forward Current - 200 mA

EXTREMELY FAST SWITCHING SPEED

FEATURES

• High Performance & Reliability best suited for Automotive application





MAXIMUM RATINGS ((TA=25°C, unless otherwise specified)

Parameter	Symbol	Value	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}			
Working Peak Reverse Voltage DC	V _{RWM}	30	V	
Blocking Voltage	V _R			
Forward Continuous Current	I_{FM}	200	mA	
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	600	mA	
Repetitive Peak Forward Current @ t≤1s,δ≤0.5 Power	I _{FRM}	300	mA	
Dissipation	P _D	200	mW	
Thermal Resistance from Junction to Ambient	R _{thJA}	500	°C/W	
Operating Junction Temperature Range	Tj	-40~ +125	°C	
Storage Temperature Range	T _{stg}	-55 ~ +150	°C	

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	V _{BR}	IR=100µA	30			V
Reverse current	I _R	VR=25V			2	uA
		IF1=0.1mA			0.24	V
	$V_{\rm F}$	IF2=1mA			0.32	V
Forward voltage		IF3=10mA			0.40	VV
		IF4=30mA			0.50	V
		IF5=100mA			1	V
Diode capacitance Reverse	CD	VR=4V, f=1MHz		10		pF
recovery time	trr	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$			5	ns

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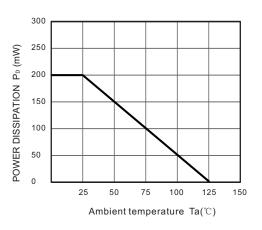
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Typical Characteristics

Fig.1 Power Derating Curve





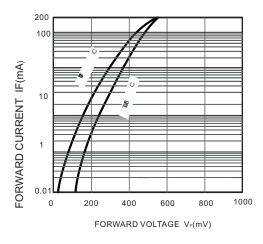


Fig.2 Reverse Characteristics

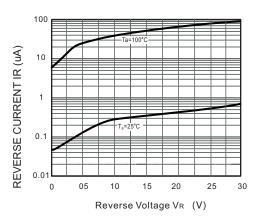
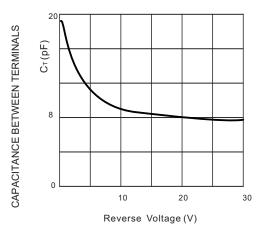


Fig.4 Capacitance Characteristics



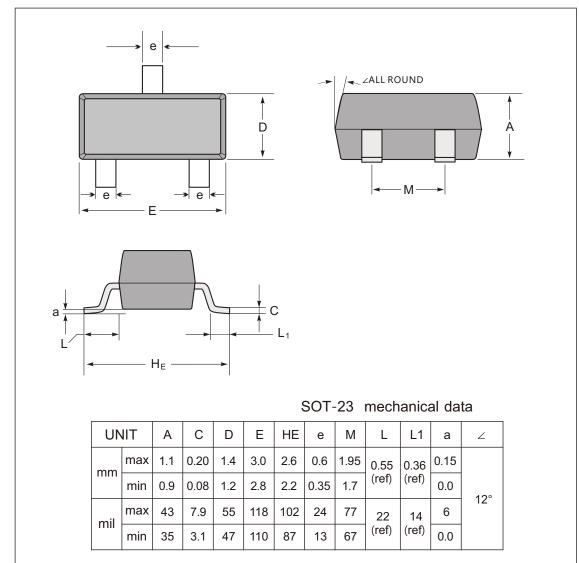


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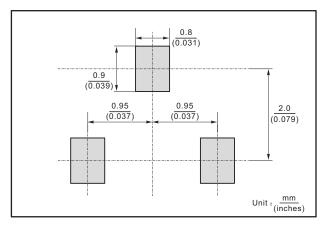
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SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code				
BAT54	KL1				
BAT54A	KL2				
BAT54C	KL3				
BAT54S	KL4				

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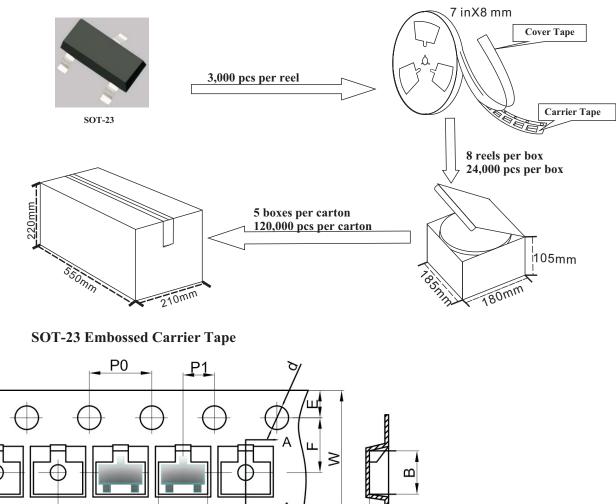


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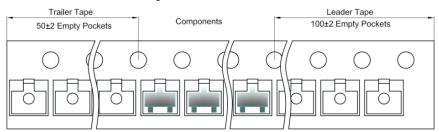
SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



	A-A									
Dimensions are in millimeter										
Pkg type	А	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



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Disclaimer

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All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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