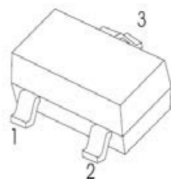


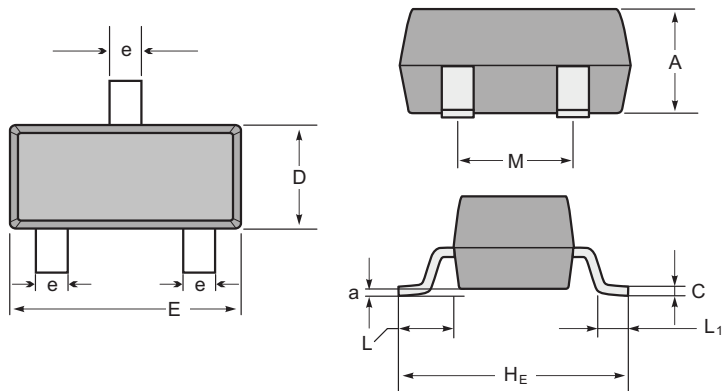
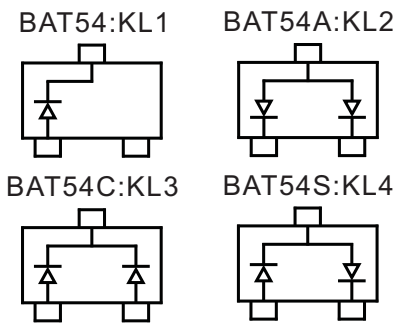
SCHOTTKY BARRIER DIODE

FEATURES

- Fast switching speed.
- For general purpose switching applications.
- High conductance.



Marking



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Vaule	Unit
V _R	Reverse Voltage	30	V
I _F	Forward Current	0.2	A
I _{FM(SURGE)}	Peak Forward Surge Current	0.6	A
P _D	Total Device Dissipation	0.2	W
R _{θJA}	Thermal Resistance Form Junction to Ambient	500	°C/W
T _J	Junction Temperature	125	°C
T _{STG}	Storage Temperature	-55~+150	°C

BAT54 / A / C / S

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse breakdown voltage	V _(BR)	I _R =100uA	30			V
Forward voltage	V _{F1}	I _F =0.1mA			0.24	
	V _{F2}	I _F =1mA			0.320	V
	V _{F3}	I _F =10mA			0.4	V
	V _{F4}	I _F =30mA			0.5	V
	V _{F5}	I _F =100mA			1	V
Reverse current	I _R	V _R =25V			2	uA
Diode capacitance	C _D	V _R =1V, f=1MHz			10.0	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA, I _{RR} =0.1xI _R , R _L =100Ω			5	nS

RATING AND CHARACTERISTIC CURVES (BAT54/A/C/S)

