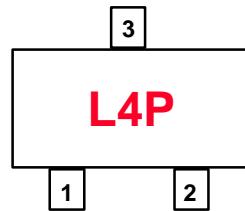
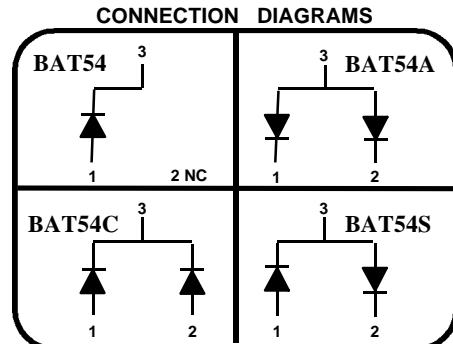


BAT54/A/C/S

PACKAGE
SOT-23
TO-236AB (Low)



MARKING
BAT54 L4P BAT54C L43
BAT54A L42 BAT54S L44



Schottky Barrier Diode

Sourced from Process KA

Absolute Maximum Ratings* TA = 25°C unless otherwise noted

Sym	Parameter	Value	Units
T _{stg}	Storage Temperature	-55 to +150	°C
T _J	Operating Junction Temperature	+150	°C
W _{IV}	Working Inverse Voltage	25	V
I _F	DC Forward Current (I _F)	200	mA
i _f	Recurrent Peak Forward Current (IFRM)	300	mA
i _{F(surge)}	Peak Forward Surge Current (IFSM) Pulse Width = 1.0 Second	600	mA
P _D	Total Power Dissipation at 25°C	230	mW
	Theta (R _{th} j-a) (Note 1)	430	°K/W

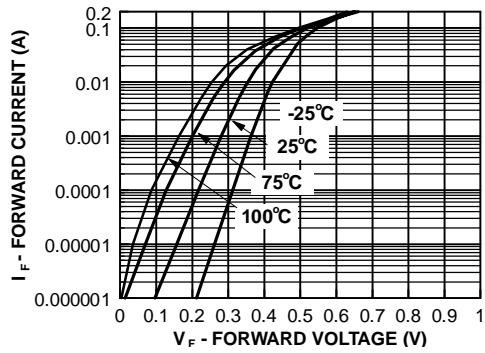
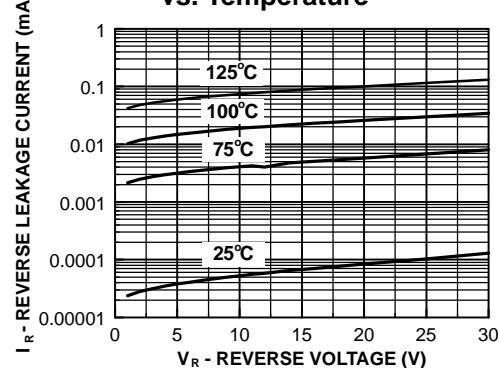
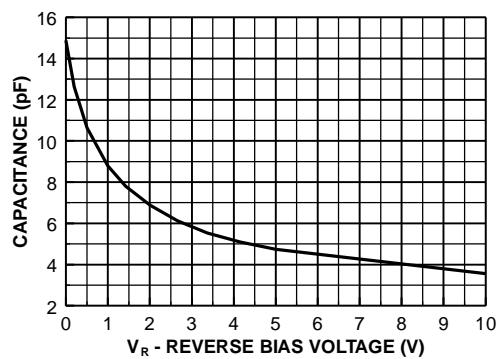
*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

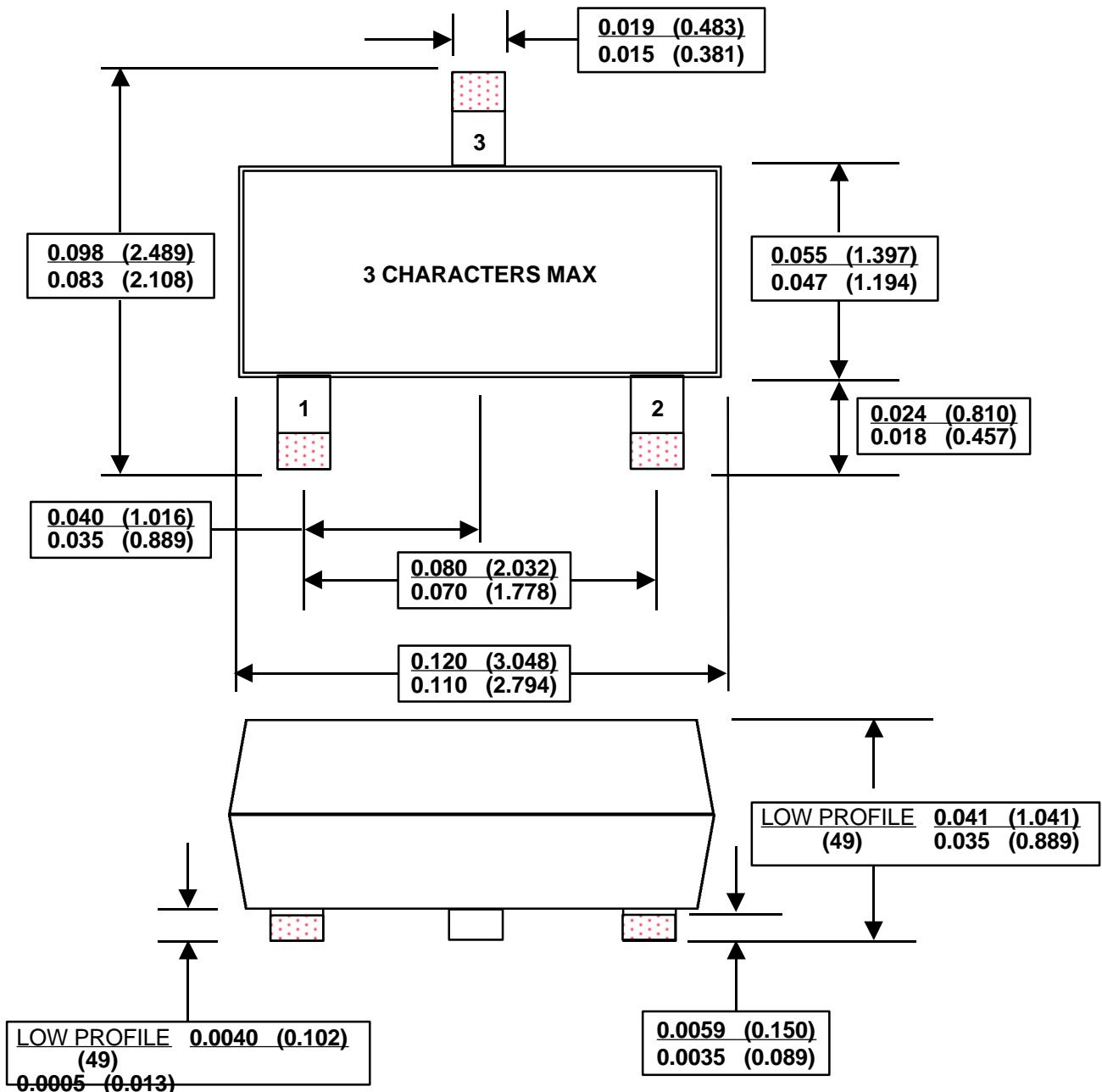
NOTES:

- From junction to ambient mounted on a ceramic substrate of 10 mm x 8 mm x 0.6 mm

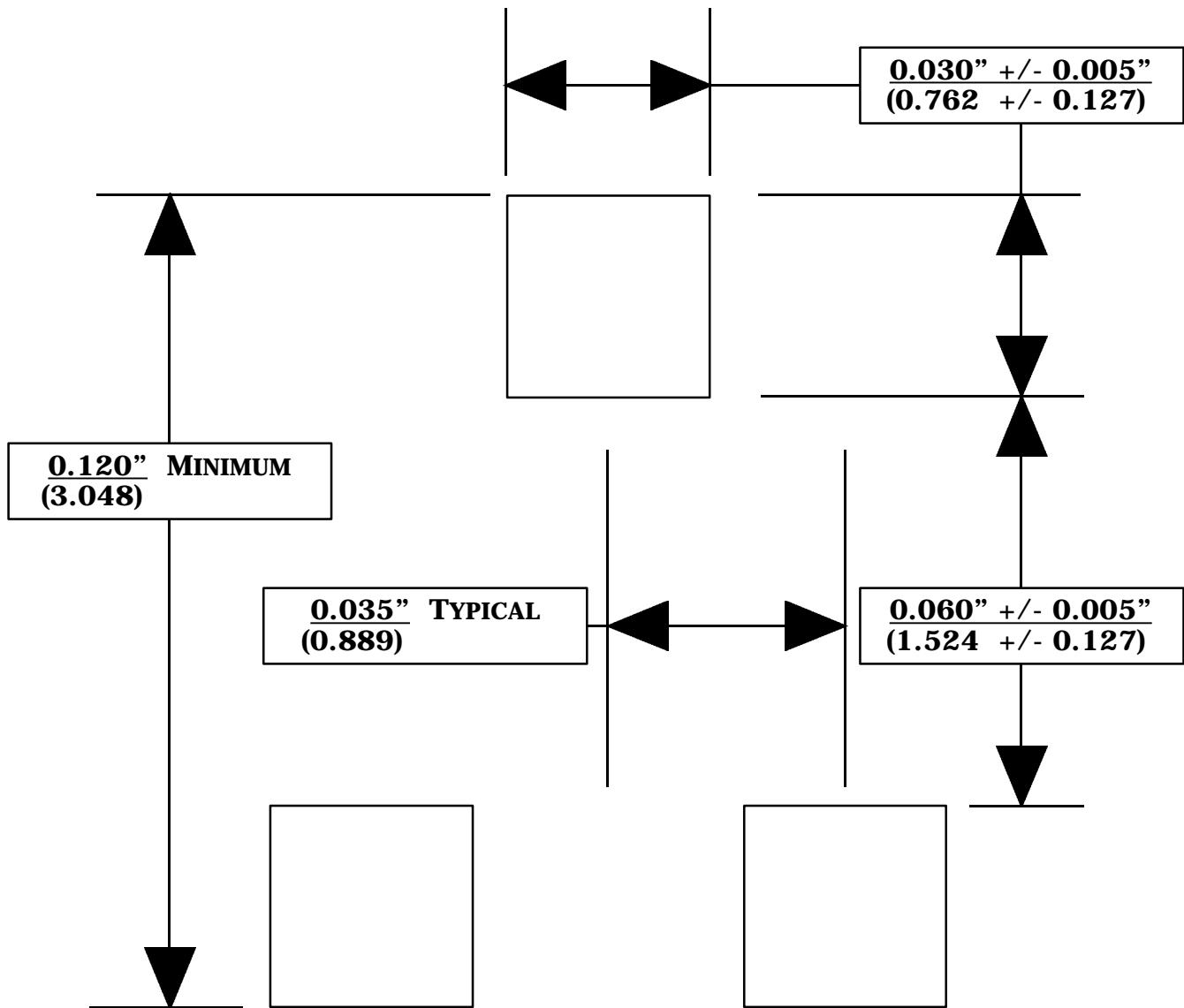
Electrical Characteristics TA = 25°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
B _V	Breakdown Voltage	30		V	I _R = 10 uA
I _R	Reverse Leakage		2.0	uA	V _R = 25 V
V _F	Forward Voltage		240 320 400 500 1.0	mV mV mV mV V	I _F = 100 uA I _F = 1.0 mA I _F = 10 mA I _F = 30 mA I _F = 100 mA
C _T	Capacitance		10	pF	V _R = 1.0 V f = 1.0 MHz
T _{RR}	Reverse Recovery Time		5.0	ns	I _F = I _R = 10 mA I _{RR} = 1.0 mA R _L = 100 Ohms

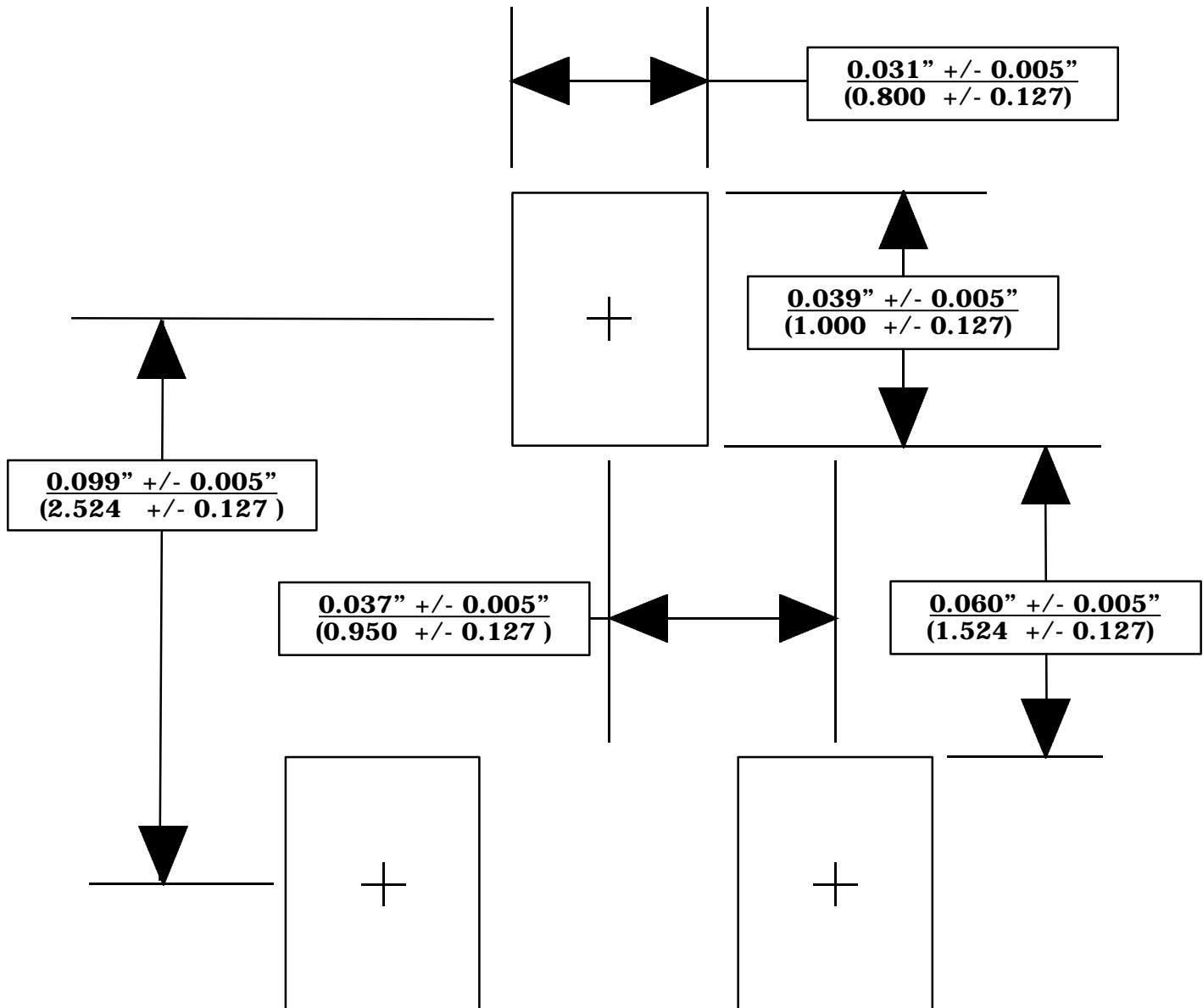
**Forward Voltage
vs. Temperature****Reverse Leakage Current
vs. Temperature****Capacitance
vs. Reverse Bias Voltage**



SOT-23
TO-236AB (LOW PROFILE)
22-August-1994



**RECOMMENDED SOLDER PADS
FOR
SOT-23**



**RECOMMENDED SOLDER PADS
FOR
U.S. & European SOT-23
&
Japanese SC-59**