

Absolute Maximum Ratings (note 1) TA = 25°C unless otherwise noted

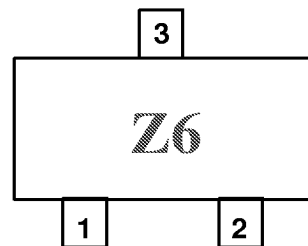
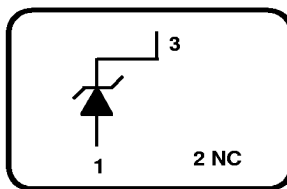
Parameter	Value	Units
Storage Temperature	-55 to +150	°C
Maximum Junction Temperature	+150	°C
Total Power Dissipation at 25°C	350	mW
Derate above 25°C	1.8	mW/°C
Thermal Resistance - Junction to Ambient	357	°C/W
Repetitive Peak Forward Current (I_{FRM})	250	mA
Repetitive Peak Working Current (I_{ZRM})	250	mA
DvZ/Dt @ 5.0 mA	Min 2.5	mV/K
	Max 5.3	mV/K
Nominal Zener Voltage (V_Z) at 5.0 mA	7.5	V

Note 1: These ratings are limiting values above which the serviceability of any semiconductor device may be impaired

CONNECTION DIAGRAM

MECHANICAL CHARACTERISTICS

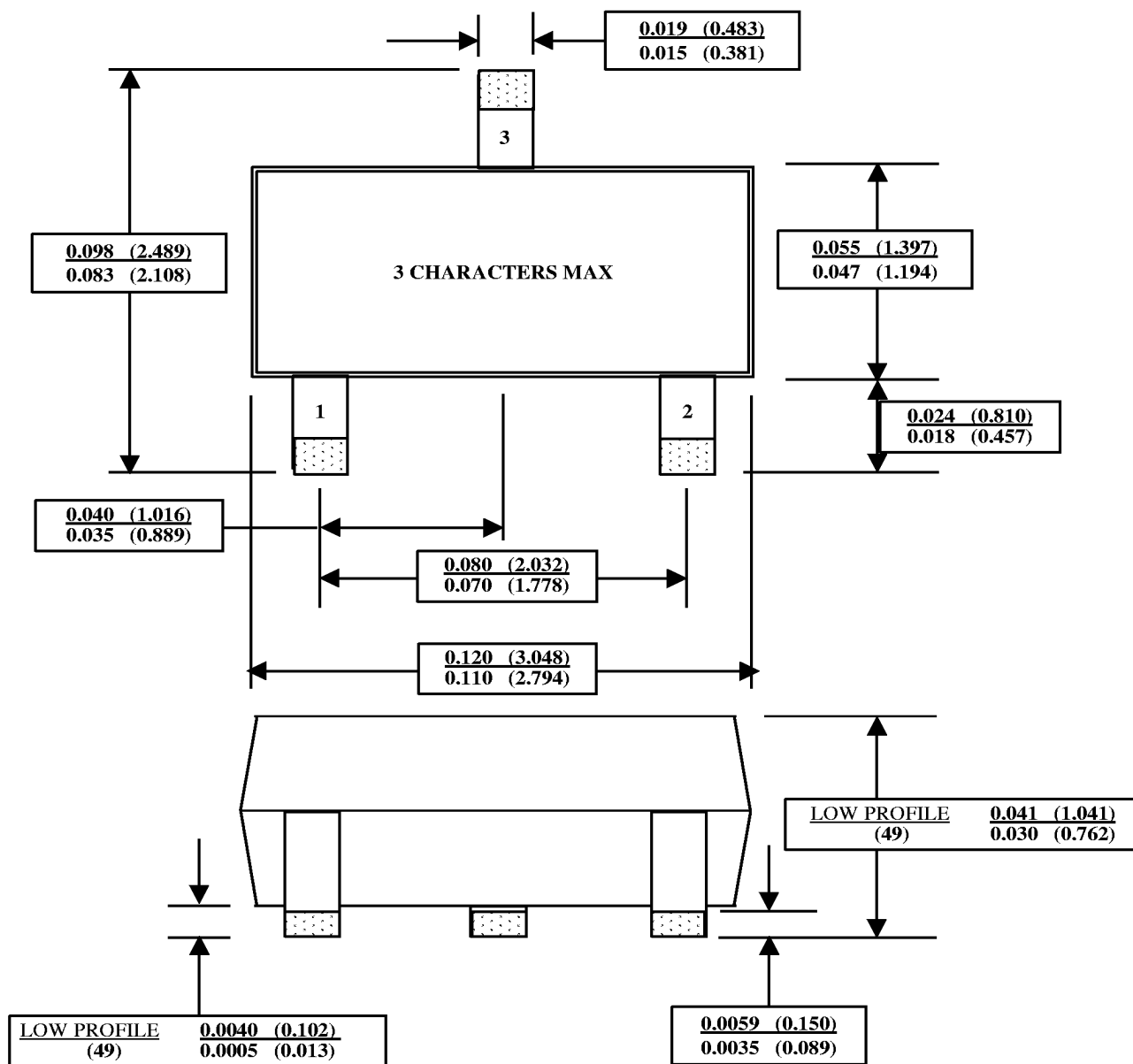
Case: JEDEC SOT-23AB (Low Profile)
 (Plastic 3 Leaded Surface Mount Device)
Lead Finish: Solder Plate 85/15 (Sn/Pb) 200 um Min
Polarity: Cathode = Pin 1. When operated in zener mode, cathode will be positive with respect to anode.



Electrical Characteristics TA = 25°C unless otherwise noted

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
V_Z	Zener Voltage	6.90	7.90	V	$I_{ZT} = 1.0 \text{ mA}$ Pulse 26 mS
		7.00	7.90	V	$I_{ZT} = 5.0 \text{ mA}$ Pulse 26 mS
		7.00	8.00	V	$I_{ZT} = 20.0 \text{ mA D.C.}$
Z_Z	Zener Impedance		80	Ohms	$I_{ZT} = 1.0 \text{ mA}$
			15	Ohms	$I_{ZT} = 5.0 \text{ mA}$
			6.0	Ohms	$I_{ZT} = 20.0 \text{ mA}$
I_R	Reverse Leakage		1.0	uA	$V_R = 5.0 \text{ V}$
V_F	Forward Voltage		900	mV	$I_F = 10 \text{ mA}$
C_T	Capacitance		150	pF	$V_R = 0.0 \text{ V}$

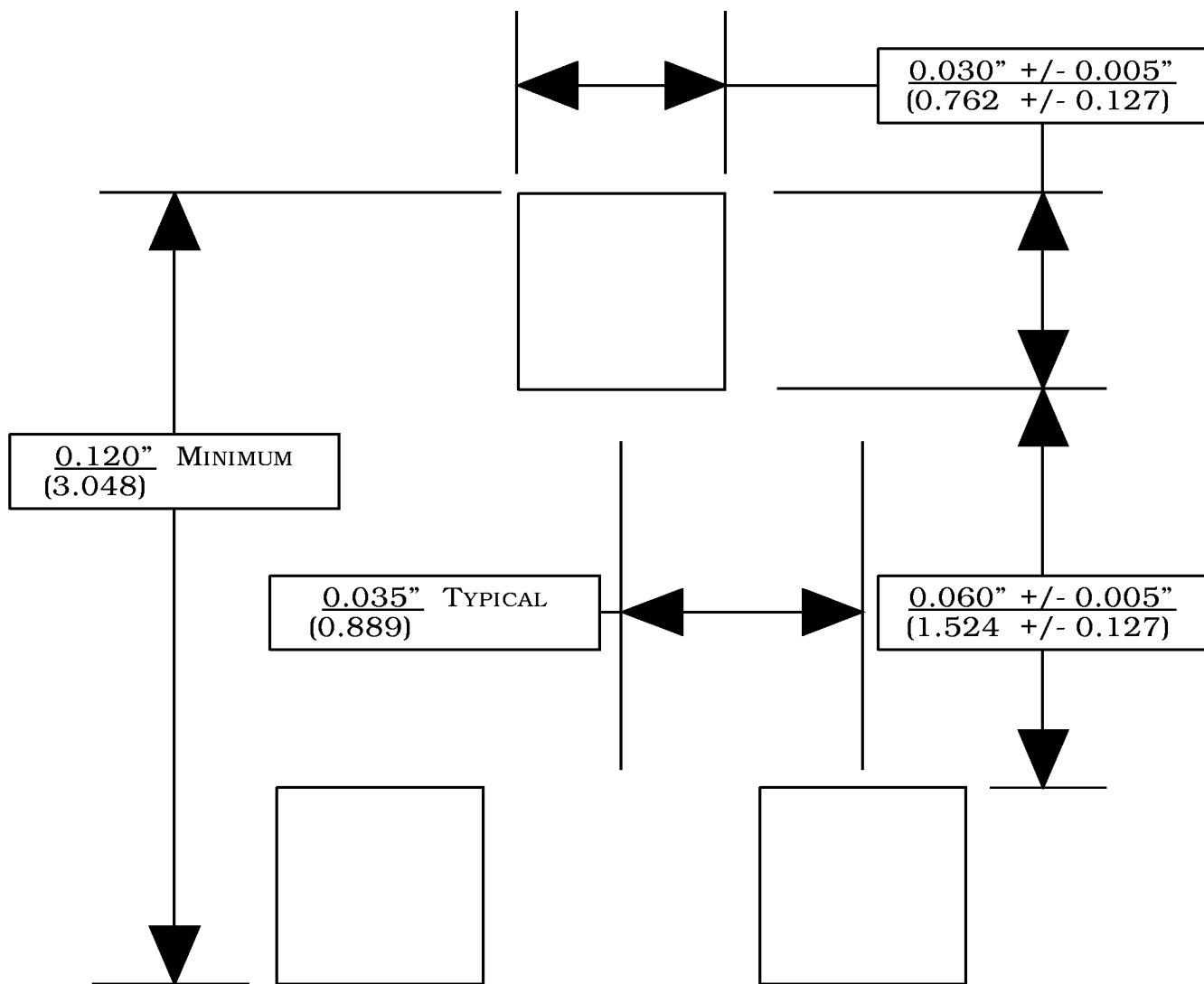
The pin identification shown below is for Diode and Zener devices only



SOT-23
350 MILLIWATT ZENER

Diode vs Bipolar Pinout

Diode		Bipolar
Pin 1	=	Pin 2
Pin 2	=	Pin 3
Pin 3	=	Pin 1



**RECOMMENDED SOLDER PADS
FOR
SOT-23**