

isc Silicon PNP Power Transistors

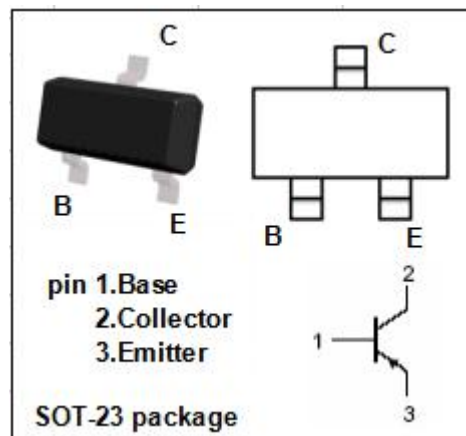
STR2550

DESCRIPTION

- Collector-Emitter Saturation Voltage-
: $V_{CE(sat)} = -0.2V(\text{Max.}) @ I_C = -0.02A$
- Collector-Emitter Breakdown Voltage-
: $V_{(BR) CEO} = -500V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Relay drivers, lamp drivers, motor drivers

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-500	V
V_{CEO}	Collector-Emitter Voltage	-500	V
V_{EBO}	Emitter-Base Voltage	-7.0	V
I_C	Collector Current-Continuous	-0.5	A
I_{CM}	Collector Current-Pulse	-1.0	A
P_C	Collector Power Dissipation $T_c=25^\circ\text{C}$	0.5	W
T_j	Max.Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-65~150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	250	$^\circ\text{C/W}$

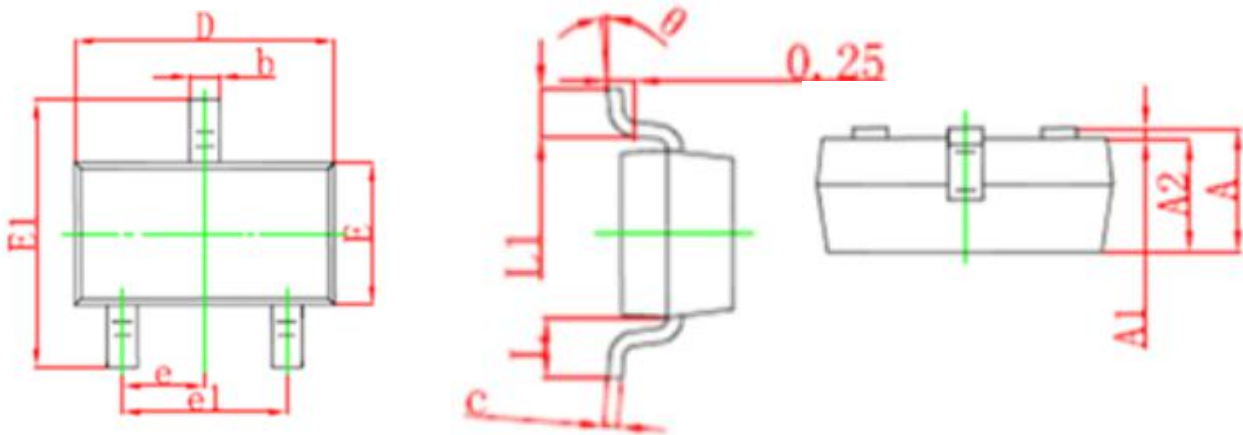
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ELECTRICAL CHARACTERISTICS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -0.1\text{mA}$; $I_B = 0$	-500		V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -20\text{mA}$, $I_B = -2.0\text{mA}$ $I_C = -50\text{mA}$, $I_B = -10\text{mA}$		-0.2 -0.3	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -50\text{mA}$, $I_B = -10\text{mA}$		-1.0	V
I_{CBO}	Collector Cutoff Current	$V_{CE} = -500\text{V}$; $V_{EB} = 0$		-10	μA
h_{FE}	DC Current Gain	$I_C = -1.0\text{mA}$, $V_{CE} = -10\text{V}$ $I_C = -50\text{mA}$, $V_{CE} = -10\text{V}$ $I_C = -100\text{mA}$, $V_{CE} = -10\text{V}$	100 100 10	300	



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Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

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