

## DESCRIPTION

2SA2027 is a super mini package resin sealed silicon PNP epitaxial transistor, It is designed for high voltage application.

## FEATURE

Small collector to emitter saturation voltage.

$$V_{CE(sat)} = -0.5V \text{ max}$$

## APPLICATION

For Hybrid IC, DC-DC converter

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

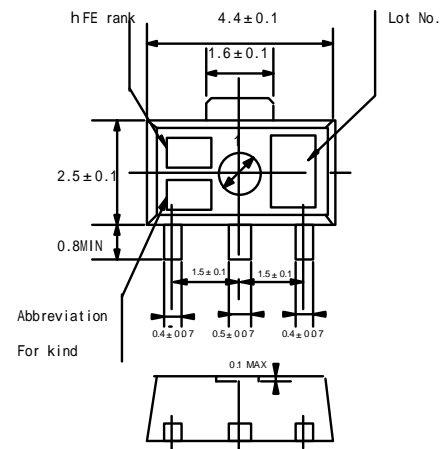
Symbol	Parameter	Ratings	Unit
$V_{CBO}$	Collector to Base voltage	-300	V
$V_{CEO}$	Collector to Emitter voltage	-300	V
$V_{EBO}$	Emitter to Base voltage	-7	V
$I_O$	Collector current	-100	mA
$P_c$	Collector dissipation	500	mW
$T_j$	Junction temperature	+ 150	
$T_{stg}$	Storage temperature	-55 ~ + 150	

ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B break down voltage	$V(BR)_{CBO}$	$I_C = -50 \mu A, I_E = 0$	-300	-	-	V
E to B break down voltage	$V(BR)_{EBO}$	$I_E = -50 \mu A, I_C = 0$	-7	-	-	V
C to E break down voltage	$V(BR)_{CEO}$	$I_C = -1mA, R_{BE} =$	-300	-	-	V
Collector cut off current	$I_{CBO}$	$V_{CB} = -300V, I_E = 0mA$	-	-	-0.5	$\mu A$
Emitter cut off current	$I_{EBO}$	$V_{EB} = -5V, I_C = 0mA$	-	-	-0.5	$\mu A$
DC forward current gain	hFE	$V_{CE} = -10V, I_C = -10mA$	50	-	305	
C to E Saturation Voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$	-	-	-0.5	V
Gain bandwidth product	fT	$V_{CE} = -6V, I_E = 10mA$	-	40	-	MHz
Collector output capacitance	$C_{ob}$	$V_{CE} = -6V, I_C = 0, f = 1MHz$	-	2.0	-	pF

## OUTLINE DRAWING

Unit : mm



JEITA: SC-62

## TERMINAL CONNECTER

: EMITTER  
: COLLECTOR  
: BASE



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