

DESCRIPTION

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

FEATURE

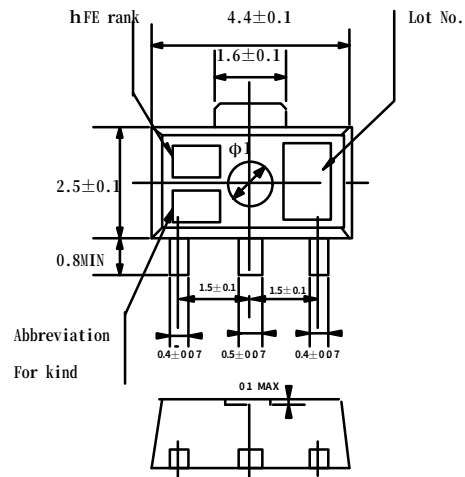
- Small collector to emitter saturation voltage.
 $V_{CE(sat)} = -0.5V$ max

APPLICATION

For Hybrid IC, DC-DC converter

OUTLINE DRAWING

Unit : mm



JEITA: SC-62

TERMINAL CONNECTER

- ①: EMITTER
- ②: COLLECTOR
- ③: BASE

MAXIMUM RATINGS (Ta=25°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	°C
T_{stg}	Storage temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°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	$V(BR)_{CEO}$	$I_C = -1mA, R_{BE} = \infty$	-300	-	-	V
Collector cut off current	I_{CBO}	$V_{CB} = -300V, I_E = 0mA$	-	-	-0.5	μA
Emitter cut off current	I_{EBO}	$V_{EB} = -5V, I_C = 0mA$	-	-	-0.5	μA
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}	$V_{CE} = -6V, I_E = 0, f = 1MHz$	-	2.0	-	pF



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