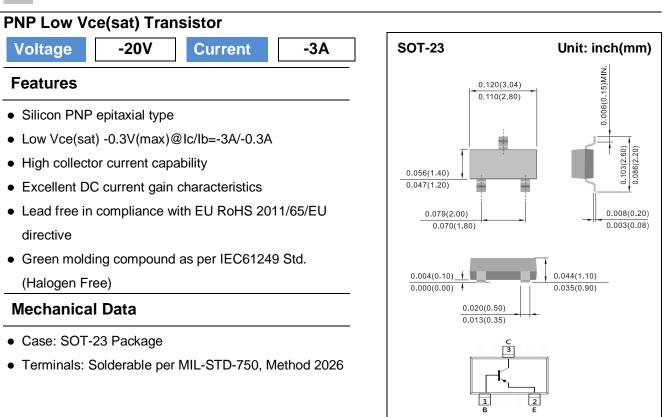
IT
SEMI



### **Maximum Ratings and Thermal Characteristics** ( $T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V <sub>CBO</sub>	-20	V
Collector-Emitter Voltage	V <sub>CEO</sub>	-20	V
Emitter-Base Voltage	V <sub>EBO</sub>	-7	V
Collector Current (DC)	Ι <sub>C</sub>	-3	А
Collector Current (Pulse)	I <sub>CP</sub>	-5	А
Base Current	I <sub>B</sub>	-0.3	А
Collector Power Dissipation	P <sub>D</sub>	1.25	W
Typical Thermal Resistance from Junction to Ambient (Note 1)	$R_{ extsf{ heta}JA}$	100	°C/W
Operating Junction and Storage Temperature Range	$T_{J}, T_{STG}$	-55~150	°C

Note: 1.Mounted on FR4 PCB at 1 inch square copper pad.

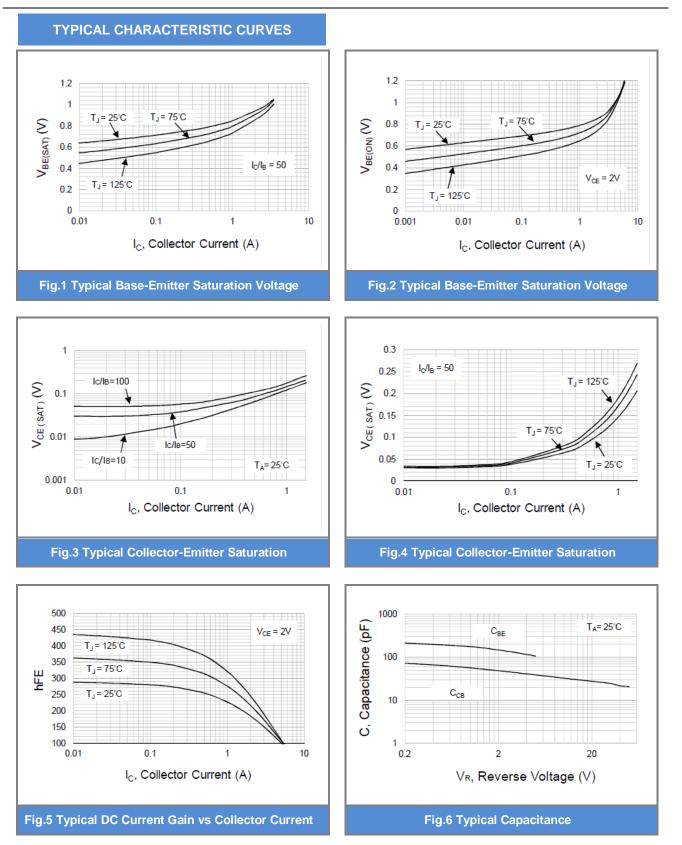


DADAMETED	OVMDO	TEAT CONDITION	MAINI	TVD		
OFF Characteristics	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = -10mA, I <sub>B</sub> = 0A	-20	_	_	V
Collector-Base Breakdown Voltage	BVCEO	$I_{c}$ = -0.1mA, $I_{E}$ = 0A	-20	-	-	V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	I <sub>E</sub> = -0.1mA, I <sub>C</sub> = 0A	-7	-	-	V
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB}$ = -20V, I <sub>E</sub> = 0A	-	-	-100	nA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = -7V, I <sub>C</sub> = 0A	-	-	-100	nA
ON characteristics						
DC Current Gain (Note 2)		V <sub>CE</sub> = -2V I <sub>C</sub> = -0.1A	200	-	500	_
	h <sub>FE</sub>	$V_{CE}$ = -2V I <sub>C</sub> = -0.5A	200	-	500	
		V <sub>CE</sub> = -2V I <sub>C</sub> = -1.6A	100	-	-	-
		V <sub>CE</sub> = -2V I <sub>C</sub> = -2.0A	80	-	-	
		$V_{CE}$ = -2V I <sub>C</sub> = -3.0A	60	-	-	
		I <sub>C</sub> = -0.5A, I <sub>B</sub> = -50mA	-	-	-70	
Collector-Emitter Saturation Voltage	N	I <sub>C</sub> = -1.6A, I <sub>B</sub> = -53mA	-	-	-190	- rel (
(Note 2)	V <sub>CE(SAT)</sub>	I <sub>C</sub> = -2A, I <sub>B</sub> = -100mA	-	-	-230	mV
		I <sub>C</sub> = -3A, I <sub>B</sub> = -300mA	-	-	-300	
Base-Emitter Saturation voltage		I <sub>C</sub> = -1.6A, I <sub>B</sub> = -53mA	-	-	-1.1	v
(Note 2)	V <sub>BE(SAT)</sub>	I <sub>C</sub> = -3A, I <sub>B</sub> = -300mA	-	-	-1.2	V
Transition Frequency	f <sub>T</sub>	$V_{CE}$ = -2V I <sub>E</sub> = 0.5A	-	160	-	MHz
Collector Output Capacitance	C <sub>OB</sub>	V <sub>CB</sub> = -10V I <sub>E</sub> = 0A, f=1MHz	-	40	-	pF

Note: 2. Pulse width <300us, Duty cycle <2%







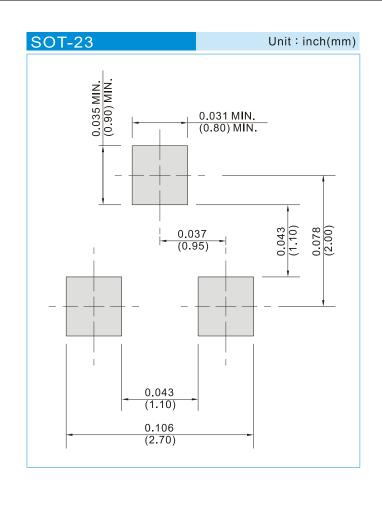




#### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
2SB1429_R1_00001	SOT-23	3K pcs / 7" reel	B29	Halogen free
2SB1429_R2_00001	SOT-23	12K pcs / 13" reel	B29	Halogen free

#### MOUNTING PAD LAYOUT







#### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panjit(强茂)