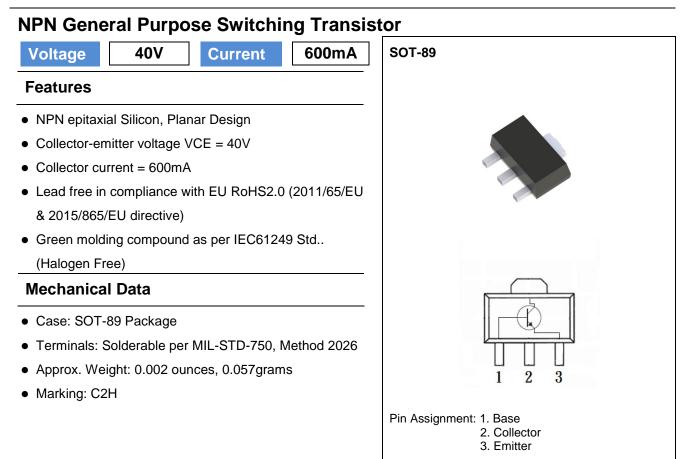
PAN	JIT
1 / 11 1	
	SEMI
	CONDUCTOR





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

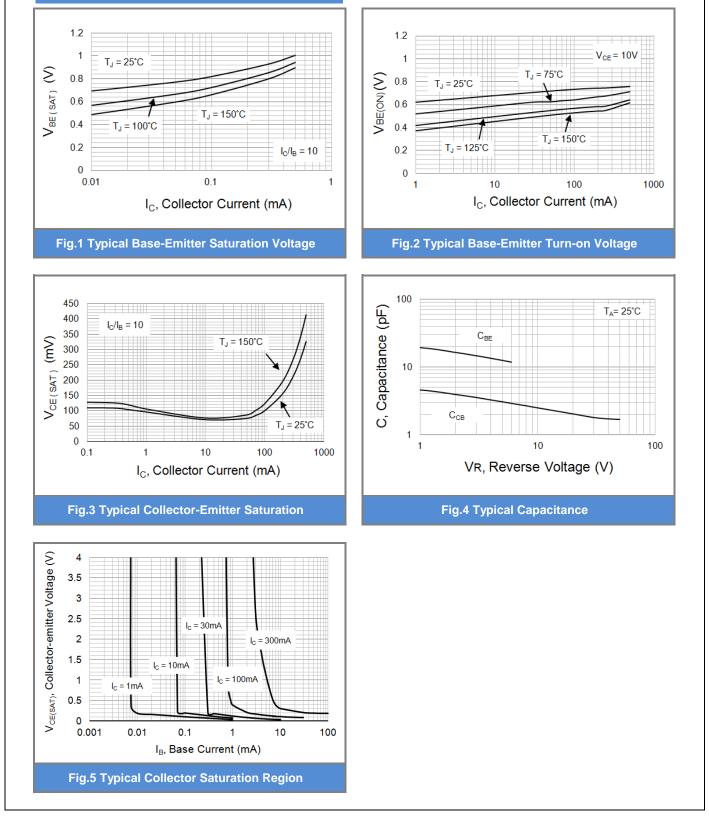
PARAMETER	SYMBOL	LIMIT	UNITS
Collector-Base Voltage	V _{CBO}	75	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	6	V
Collector Current (DC)	Ι _c	600	mA
Collector Current (Pulse)	I _{CP}	800	mA
Total Power Dissipation	Ρτοτ	1.1	W
Junction to Ambient (Note1)	R_{\thetaJA}	250	°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55~150	°C

Note1: Transistor mounted on a FR4 PCB, single-sided copper, tin-plated and standard footprint.



Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
OFF Characteristics						·
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C = 1.0mA, I _B = 0A	40	-	-	V
Collector-Base Breakdown Voltage	BV _{CBO}	I_{C} = 10uA, I_{E} = 0A	75	-	-	V
Emitter-Base Breakdown Voltage	BV _{EBO}	I_{E} = 10uA, I_{C} = 0A	6	-	-	V
Collector-Base Cutoff Current	I _{CBO}	V_{CB} = 60V, I _E = 0A	-	-	10	nA
Emitter-Base Cutoff Current	I _{EBO}	V _{EB} = 3V	-	-	10	nA
Collector-Emitter Cutoff Current	I _{CES}	V _{CES} = 60V	-	-	10	nA
ON characteristics	•					
		V_{CE} = 10V I _C = 0.1mA	35	-	-	
		V_{CE} = 10V I _C = 1mA	50	-	-	
DC Current Coin	L.	V_{CE} = 10V I _C = 10mA	75	-	-	
DC Current Gain	h _{FE}	V_{CE} = 10V I _C = 150mA	100	-	300	
		V_{CE} = 1V I _C = 150mA	50	-	-	
		V_{CE} = 10V I _C = 500mA	40	-	-	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = 150mA, I _B = 15mA	-	-	0.3	
		I _C = 500mA, I _B = 50mA	-	-	1.0	V
	V _{BE(SAT)}	I _C = 150mA, I _B = 15mA	-	-	1.2	v
Base-Emitter Saturation voltage		I _C = 500mA, I _B = 50mA	-	-	2.0	
Collector-Base Capacitance	C _{CBO}	V _{CB} = 10V, f=1MHz	-	-	8	
Emitter-Base Capacitance	C _{EBO}	V _{CB} = 0.5V, f=1MHz	-	-	25	pF
Delay Time	td	VCC= 3V, VBE= -5V	-	-	10	
Rise Time	tr	IC= 150mA, IB= 15mA	-	-	25	nS
Storage Time	ts	VCC= 30V, IC= 150mA	-	-	225	
Fall Time	tf	IB1 = IB2 = 15mA	-	-	60	
Turn-on Time	ton	IC= 150mA,Ibon =15mA	-	-	35	
Turn-off Time	toff	lboff = -15mA	-	-	250	
Transition Frequency	fT	VCE = 10 V; IC = 20mA F = 100 MHz	300	-	-	MHz



TYPICAL CHARACTERISTIC CURVES

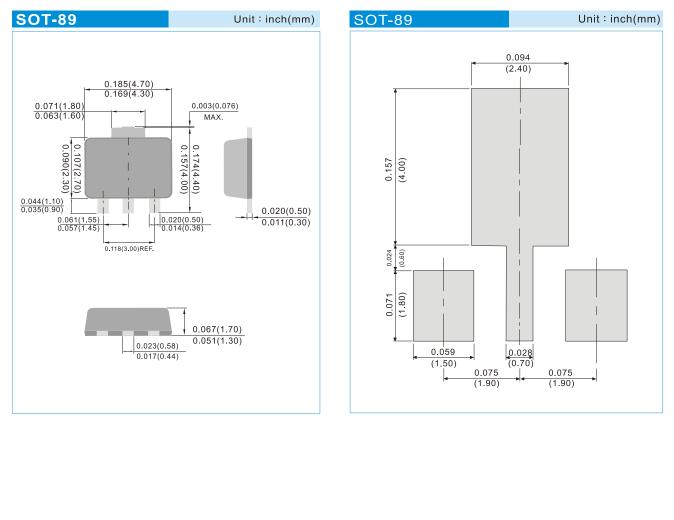




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
2SC2222H_R1_00001	SOT-89	1000pcs / 7" reel	C2H	Halogen free

Packaging Information & 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.