

PXT8050 NPN Transistors

General description

SOT-89-3L Plastic-Encapsulate Transistors

FEATURES

- Complementary to PXT8550
- Power Dissipation of 500mW
- High Stability and High Reliability

MECHANICAL DATA

- SOT-89-3L Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any

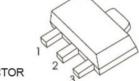
SOT-89-3L



2. COLLECTOR

3. EMITTER

Marking: Y1



Maximum Ratings & Thermal Characteristics T_A = 25°C unless otherwise noted

Parameters	Symbol	Value	Unit
Collector-Base Voltage	Vсво	40	V
Collector-Emitter Voltage	VCEO	25	V
Emitter -Base Voltage	VEBO	5	V
Collector Current-Continuous	Ic	1500	mA
Collector Power Dissipation	Pc	500	mW
Junction Temperature	Tj	150	$^{\circ}$
Storage Temperature	Tstg	-55-+150	$^{\circ}$
Thermal resistance From junction to ambient	Rөja	250	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

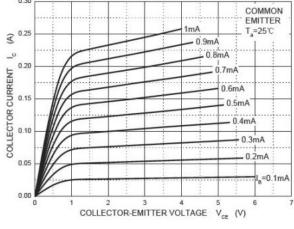
Parameter	Symbols	Test Condition	Limits		Unit
Farameter	Syllibols	rest condition	Min	Max	Oilit
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40		V
Collector-emitter breakdown voltage	V(BR)CEO	IC=0.1mA, IB=0	25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	5		V
Collector cut-off current	ICEO	VCE=20V, IB=0		100	nA
Collector cut-off current	ICBO	VCB=40V, IE=0		100	nA
Emitter cut-off current	IEBO	VEB=5V, IC=0		100	nA
DC current gain	hFE(1)	VCE=1V, IC=100mA	85	400	
	hFE(2)	VCE=1V, IC=800mA	50		
Collector-emitter saturation voltage	VCE(sat)	IC=800mA, IB=80mA		0.50	V
Base -emitter saturation voltage	VBE(sat)	IC=800mA, IB=80mA		1.20	V
Transition frequency	fτ	VCE=10V, IC=50mA,f=30MHz	100		MHz

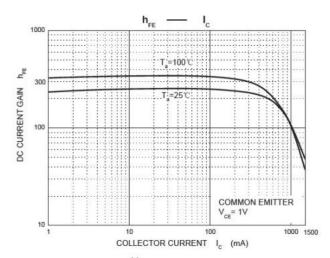
CLASSIFICATION OF hfe(1)

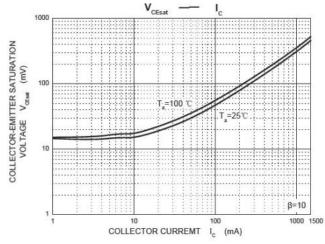
RANK	В	С	D	D3
RANGE	85-160	120-200	160-300	300-400

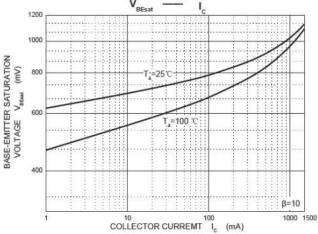


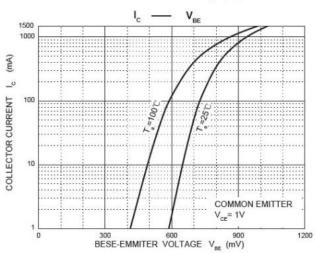


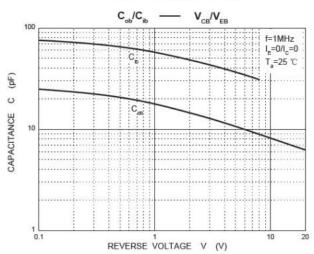






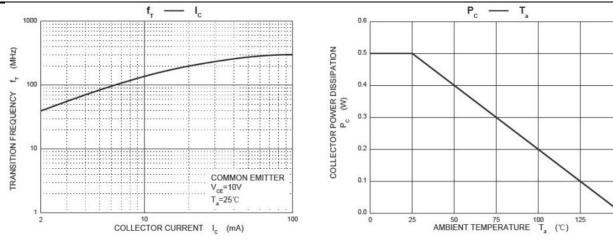




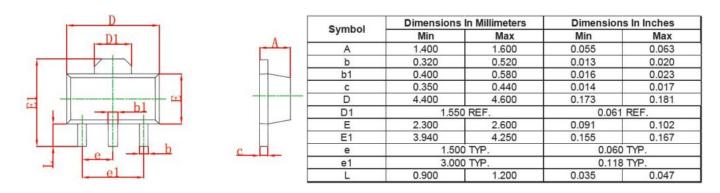


PXT8050

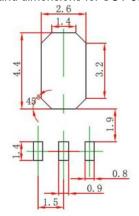




SOT-89-3L PACKAGE OUTLINE Plastic surface mounted package



Recommended land dimensions for SOT-89-3 diode. Electrode patterns for PCBs



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.



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