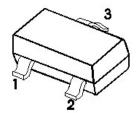
S8050

SOT-23 Plastic-Encapsulate Transistors

SOT-23



- 1. BASE
- 2. EMITTER
- 3. COLLECTOR

Features

- Complementary to S8550
- → Power Dissipation of 300mW
- ◆ High Stability and High Reliability

Mechanical Data

SOT-23 Small Outline Plastic Package

Epoxy UL: 94V-0

Mounting Position: Any

Marking: J3Y

$\textbf{Maximum Ratings \& Thermal Characteristics} \ (\textbf{Ratings at } 25 ^{\circ} \textbf{C} \ \ \text{ambient temperature unless otherwise specified.})$

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	500	mA
Collector Power Dissipation	Pc	300	mW
Junction Temperature	Tj	150	${\mathbb C}$
Storage Temperature	Tstg	-55-+150	$^{\circ}$
Thermal resistance From junction to ambient	Rеja	417	°C/W

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Cumbala	Test Condition	Limits		Unit
r at attleter	Parameter Symbols Test Condition		Min	Max	
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40		٧
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	25		V
Emitter-base breakdown voltage	V(BR)EBO	IE=100uA, IC=0	5		٧
Collector cut-off current	ICEO	VCE=20V, IB=0		100	nA
Collector cut-off current	Ісво	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=50mA	120	400	
	hFE(2)	VCE=1V, IC=500mA	50		
Collector-emitter saturation voltage	VCE(sat)	IC=500mA, IB=50mA		0.60	V
Base -emitter saturation voltage	VBE(sat)	IC=500mA, IB=50mA		1.20	V
Transition frequency	fT	VCE=6V, IC=20mA,f=30MHz	150		MHz

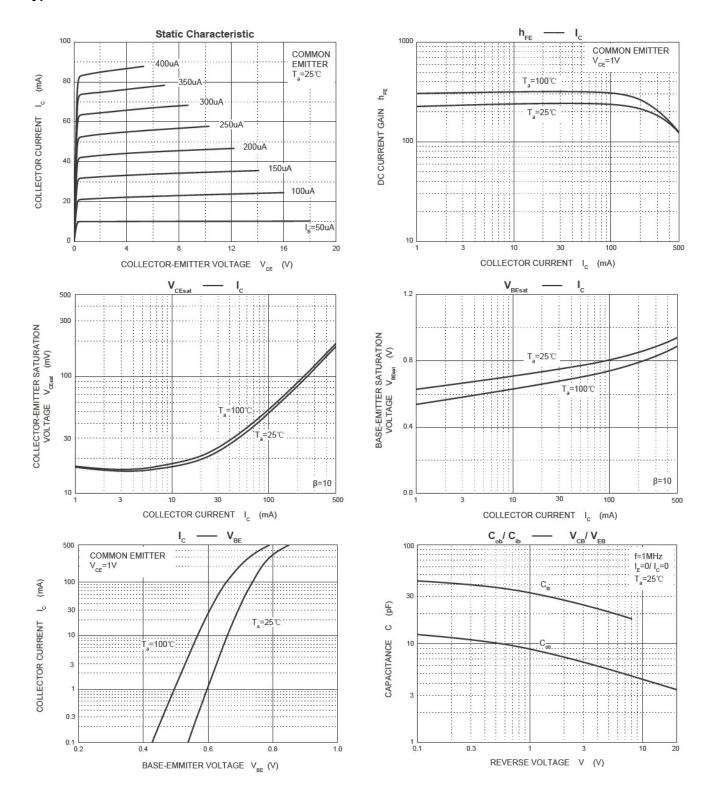
CLASSIFICATION OF hfe(1)

RANK	L	Н	J
RANGE	120-200	200-350	300-400



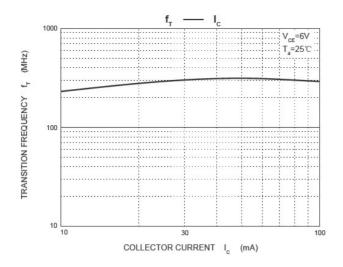
RATINGS AND CHARACTERISTIC CURVES S8050

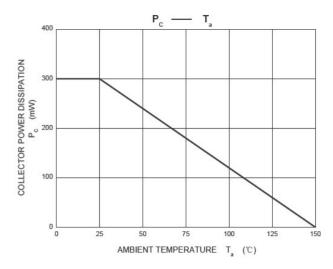
Typical Characteristics



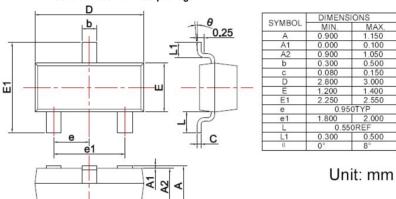


RATINGS AND CHARACTERISTIC CURVES S8050



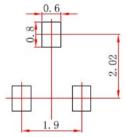


SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Precautions: PCB Design

Recommended land dimensions for SOT-23 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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NS 2N5769 2SC2412KT146S CPH6501-TL-E MCH4021-TL-E MJE340 Jantx2N5416 US6T6TR NJL0281DG 732314D CPH3121-TL-E

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