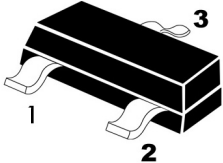
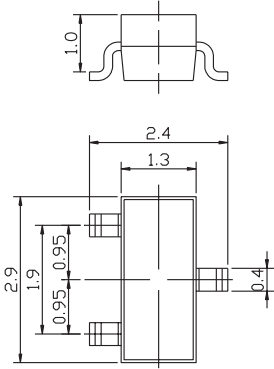


**TRANSISTOR (PNP)**
**Plastic-Encapsulate Transistor**

<p><b>FEATURES</b></p> <p>Power dissipation  <math>P_{CM} : 0.2W</math> (<math>T_{amb}=25^{\circ}C</math>)</p> <p>Collector current  <math>I_{CM} : -0.1A</math></p> <p>Collector-base Voltage  <math>V_{(BR)CBO} : -60 V</math></p> <p>Operating and storage junction temperature range  <math>T_J, T_{stg} : -55^{\circ}C</math> to <math>+150^{\circ}C</math></p>	<p><b>SOT-23</b></p> <p>1. BASE                  2. EMITTER                  3. COLLECTOR</p>   <p style="text-align: right;">Unit:mm</p>
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**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
 Ratings at 25°C ambient temperature unless otherwise specified.

**ELECTRICAL CHARACTERISTICS**

Parameters	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100 \mu A, I_E=0$		-60	V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$		-50	V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu A, I_C=0$		-5	V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-60V, I_E=0$		-0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$		-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=-6V, I_C=-1mA$	90	600	
Collector-emitter saturation voltage	$V_{CEsat}$	$I_C=-100mA, I_B=-10mA$		-0.3	V
Base-emitter voltage	$V_{BE}$	$I_C=-1mA, V_{CE}=-6V$		-0.68	V
Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0 \quad f=1.0MHZ$		4.5	pF
Transition frequency	$F_t$	$V_{CE}=-6V, I_C=-10mA$	180		MHZ

**CLASSIFICATION OF  $h_{FE}$** 

Rank	M3	M4	M5	M6	M7
Range	60-120	90-180	135-270	200-400	300-600

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