

### 2SC3279 TRANSISTOR (NPN)

#### FEATURES

Power dissipation

$P_{CM}$ : 0.75 W ( $T_{amb}=25^{\circ}C$ )

Collector current

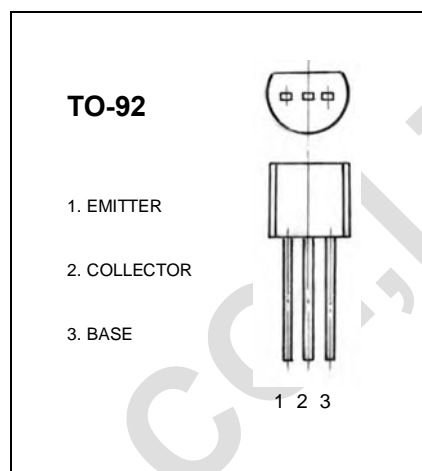
$I_{CM}$ : 2 A

Collector-base voltage

$V_{(BR)CBO}$ : 30 V

Operating and storage junction temperature range

$T_J, T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$



#### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	30		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	10		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	6		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=30V, I_E=0$		0.1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=6V, I_C=0$		0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=1V, I_C=0.5A$	140	600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=2A, I_B=100mA$		0.8	V
Base-emitter voltage	$V_{BE}$	$I_C=2A, V_{CE}=1V$		1.5	V
Transition frequency	$f_T$	$V_{CE}=1V, I_C=0.5A$ $f=30MHz$	100		MHz

#### CLASSIFICATION OF $h_{FE}$

Rank	L	M	N	P
Range	140-240	200-330	300-450	420-600