2SC3279 TRANSISTOR (NPN)

TO-92

1.EMITTER
2.COLLECTOR
3.BASE

FEATURES

- High DC current gain and excellent h_{FE} linearity
- Low saturation voltage

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC3279	TO-92	Bulk	1000pcs/Bag
2SC3279-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	10	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current –Continuous	2	A
P_C	Collector Power Dissipation	750	mW
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55-150	℃

T_a=25℃ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	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}=30 V , I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=6 V , I_C=0			0.1	μA
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			0.82	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		150		MHz
Collector output capacitance	C_{ob}	V_{CB}=10V,I_E=0,f=1MHz		27		pF

CLASSIFIC ATION OF h_{FE}

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