2SC1359 TRANSISTOR (NPN)

TO-92

1.EMITTER
2.COLLECTOR
3.BASE

FEATURES

- Optimum for RF Amplification of FM/AM Radios.
- High Transition Frequency f_T.

ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SC1359	TO-92	Bulk	1000pcs/Bag
2SC1359-TA	ˇ^ -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	20	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	0.03	A
P_D	Collector Power Dissipation	400	mW
$R_{\theta JA}$	Thermal Resistance from Junction ˇo Ambient	312	℃ /W
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= 0.1mA,I_E=0	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=1mA,I_B=0	20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=0.1mA,I_C=0	5			V
Collector cut-off current	I_{CBO}	V_{CB}=10V,I_E=0			0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=5V,I_C=0			0.1	μA
DC current gain	h_{FE}	V_{CE}=10V, I_C=1mA	70		220	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=15mA,I_B=1.5mA			0.2	V
Base-emitter saturation voltage	$V_{BE\ (sat)}$	I_C=15mA,I_B=1.5mA			1.2	V
Transition frequency	f_T	V_{CE}=10V,I_C=1mA, f=200MHz	150			MHz

CLASSIFICATION OF h_{FE}

RANK	B	C
RANGE	70-140	110-220