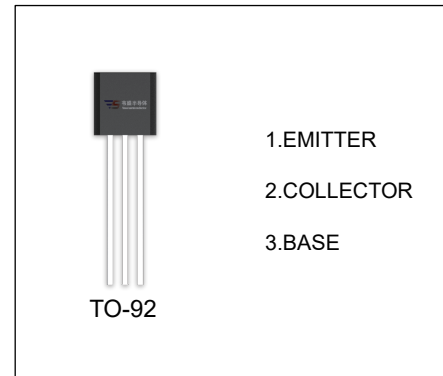


2SC1359 TRANSISTOR (NPN)

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	~ ^ -92	Tape	2000pcs/Box

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CB0}	Collector-Base Voltage	30	V
V_{CE0}	Collector-Emitter Voltage	20	V
V_{EB0}	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 to Ambient	312	$^\circ\text{C} / \text{W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^\circ\text{C}$

$T_a=25\text{ }^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=0.1\text{mA}, I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}, I_B=0$	20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=0.1\text{mA}, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=10\text{V}, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}, I_C=0$			0.1	μA
DC current gain	h_{FE}	$V_{CE}=10\text{V}, I_C=1\text{mA}$	70		220	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{mA}$			0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=15\text{mA}, I_B=1.5\text{mA}$			1.2	V
Transition frequency	f_T	$V_{CE}=10\text{V}, I_C=1\text{mA}, f=200\text{MHz}$	150			MHz

CLASSIFICATION OF h_{FE}

RANK	B	C
RANGE	70-140	110-220