

## **NPN Epitaxial Silicon Transistor**

Absolute Maximum	Ratings T <sub>a</sub> =25°C unless otherwise no	oted
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Symbol	Parameter	Ratings	Units
V <sub>CBO</sub>	Collector-Base Voltage	30	V
V <sub>CEO</sub>	Collector-Emitter Voltage	25	V
/EBO Emitter-Base Voltage		5	V
I <sub>C</sub>	Collector Current	300	mA
Collector Power Dissipation		400	mW
Junction Temperature		150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

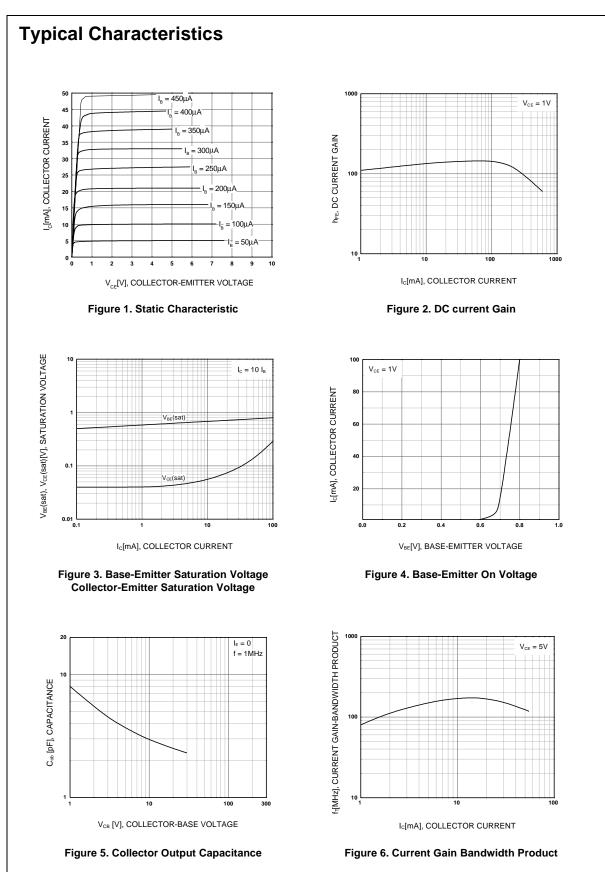
### Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	Ι <sub>C</sub> =100μΑ, Ι <sub>Ε</sub> =0	30			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =0	25			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> =10μA, I <sub>C</sub> =0	5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> =25V, I <sub>E</sub> =0			0.1	μΑ
IEBO	Emitter Cut-off Current	V <sub>EB</sub> =3V, I <sub>C</sub> =0			0.1	μΑ
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> =1V, I <sub>C</sub> =50mA	70		400	- 15
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> =300mA, I <sub>B</sub> =30mA		0.14	0.4	V

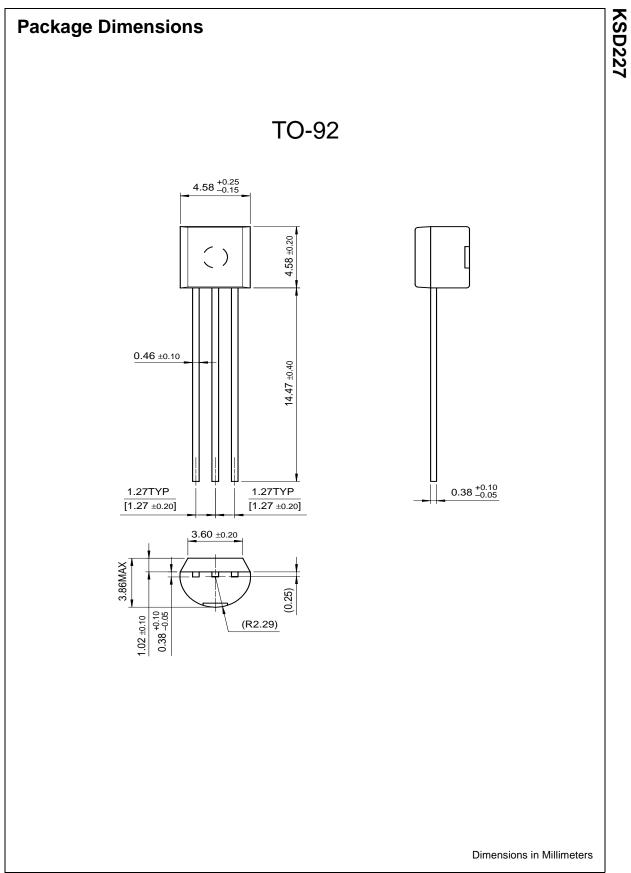
## h<sub>FE</sub> Classification

Classification	0	Y	G
h <sub>FE</sub>	70 ~ 140	120 ~ 240	200 ~ 400
12	- 1-104	NWP -	





# KSD227



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