

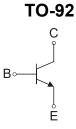
#### **Features**

High Voltage



## **Package Marking and Ordering Information**

Product ID	Pack	rand	Qty(PCS)
2N5962 PBFREE	TO-92	HXY MOSFET	1000



# Maximum Ratings (Ta=25°C unless otherwise noted)

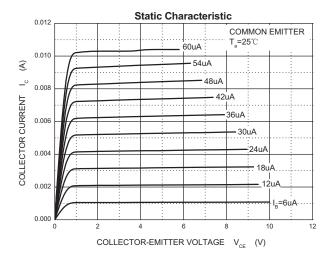
Symbol	Parameter	Value	Unit
V <sub>CBO</sub>	Collector-Base Voltage	50	V
V <sub>CEO</sub>	Collector-Emitter Voltage	45	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
Ic	Collector Current -Continuous	0.1	Α
Pc	Collector Power Dissipation	625	mW
R <sub>0 JA</sub>	Thermal Resistance From Junction to Ambient	200	°C /W
$T_J, T_stg$	Operation Junction and Storage Temperature Range	-55~+150	°C

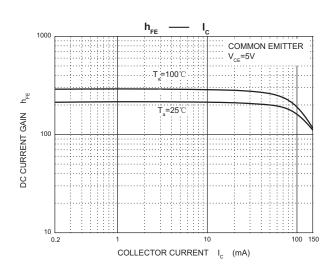
### **Electrical Characteristics (Ta=25°C unless otherwise specified)**

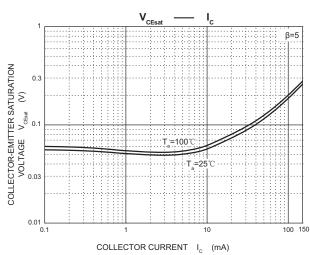
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> = 0.1mA,I <sub>E</sub> =0	50		V
Collector-emitter breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>C</sub> =1mA,I <sub>B</sub> =0	45		V
Emitter-base breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =10μA,I <sub>C</sub> =0	6		V
Collector cut-off current	I <sub>CBO</sub>	V <sub>CB</sub> =50V,I <sub>E</sub> =0		0.1	μΑ
Collector cut-off current	I <sub>CEO</sub>	V <sub>CE</sub> =45V,I <sub>B</sub> =0		0.1	μΑ
Emitter cut-off current	I <sub>EBO</sub>	V <sub>EB</sub> =5V,I <sub>C</sub> =0		0.1	μA
DC current gain	h <sub>FE</sub> *	V <sub>CE</sub> =5V, I <sub>C</sub> =2mA	420	800	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =5mA		0.3	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =100mA,I <sub>B</sub> =5mA		1.1	V
Door omittee veltere		V <sub>CE</sub> =5V, I <sub>C</sub> =2mA	0.58	0.7	V
Base-emitter voltage	V <sub>BE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA		0.75	V
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =10V,I <sub>E</sub> =0, f=1MHz		4.5	pF
Transition frequency	f <sub>T</sub>	VcE=5V,Ic=10mA, f=100MHz	150		МН

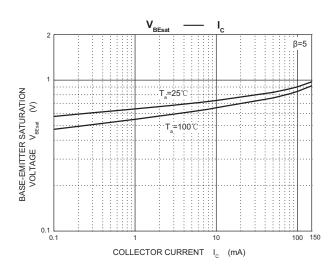


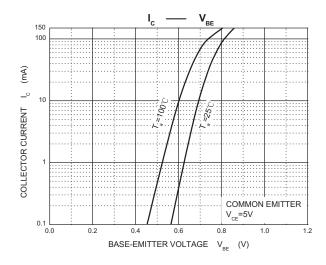
#### **Typical Characteristics**

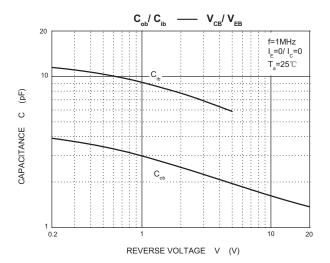




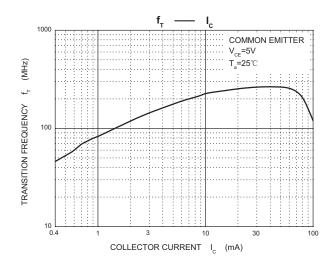


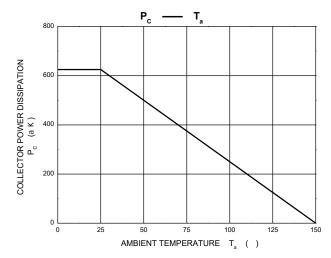




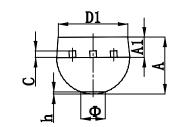


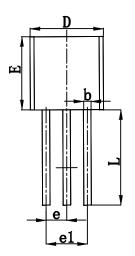






### **TO-92 Package Outline Dimensions**





Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
А	3.300	3.700	0.130	0.146	
A1	1.100	1.400	0.043	0.055	
b	0.380	0.550	0.015	0.022	
С	0.360	0.510	0.014	0.020	
D	4.300	4.700	0.169	0.185	
D1	3.430		0.135		
E	4.300	4.700	0.169	0.185	
е	1.270 TYP		0.050	) TYP	
e1	2.440	2.640	0.096	0.104	
L	14.100	14.500	0.555	0.571	
Ф		1.600		0.063	
h	0.000	0.380	0.000	0.015	



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