

TO-126 Plastic-Encapsulate Transistors Transistor(PNP)

FEATURES

Power dissipation

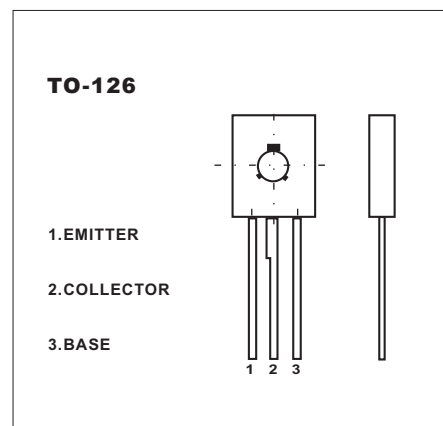
P_{CM} :1.25 W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} :-3 A

Collector-base voltage

$V_{(BR)CBO}$:-40 V



ELECTRICAL CHARACTERISTICS

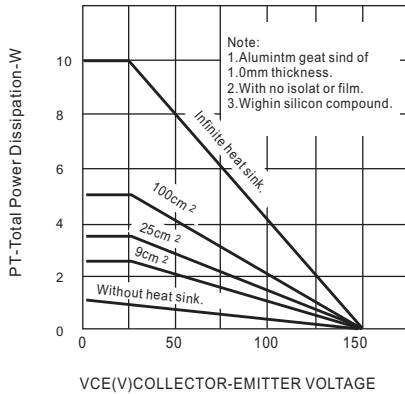
($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-basebreakdown voltage	$V_{(BR)CBO}$	$I_C=-100 \mu A, I_E=0$	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10 mA, I_B=0$	-30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-100 \mu A, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-40 V, I_E=0$			-1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=-30 V, I_B=0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-6 V, I_C=0$			-1	μA
DC current gain	$H_{FE(1)}$	$V_{CE}=-2V, I_C=-1A$	60		400	
	$H_{FE(2)}$	$V_{CE}=-2 V, I_C=-100mA$	32			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-2A, I_B=-0.2A$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-2A, I_B=-0.2A$			-2	V
Transition frequency	f_T	$V_{CE}=-5V, I_C=-0.1mA$ $f=10MHz$	50			MHz

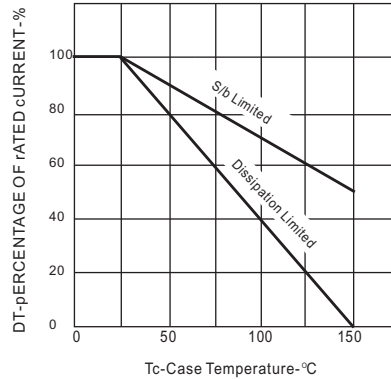
CLASSIFICATION OF $H_{FE(1)}$

Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

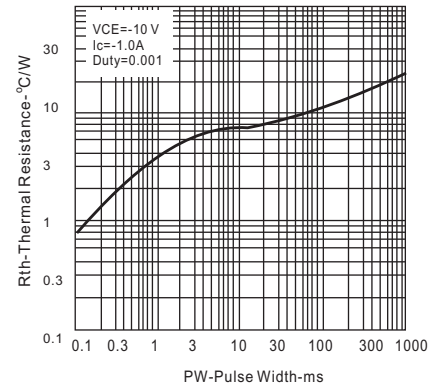
TOTAL POWER DISSIPATION vs. AMBIENT TEMPERATURE



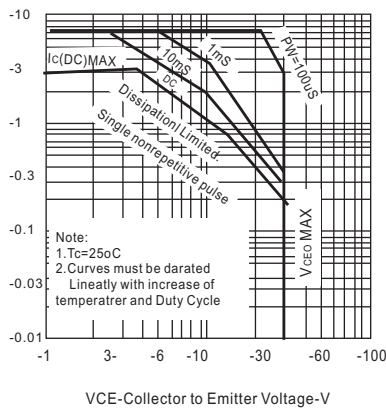
DERATING CURVES FOR ALL TYPES



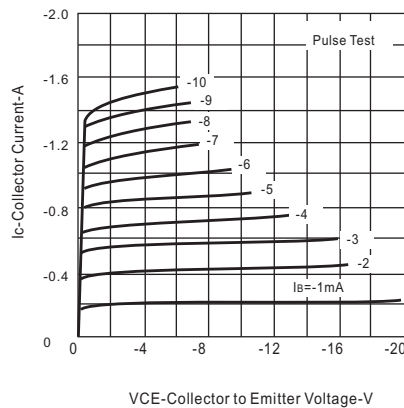
THERMAL RESISTANCE vs PULSE WIDTH



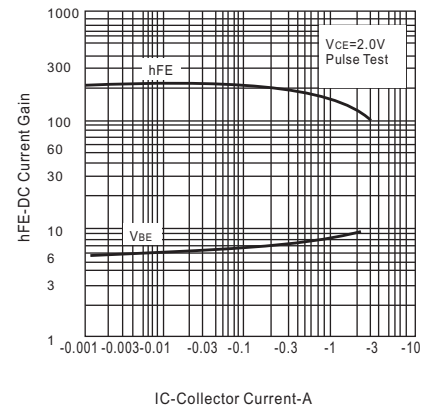
SAFE OPERATING AREAS



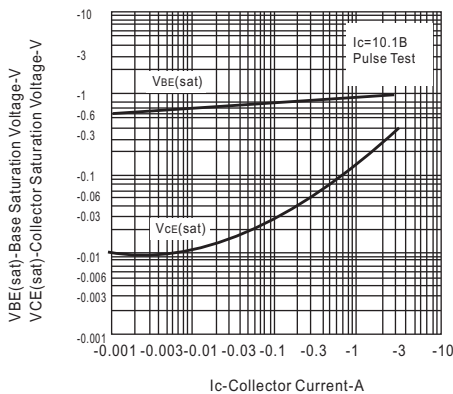
COLLECTOR CURRENT vs COLLECTOR TO EMITTER VOLTAGE



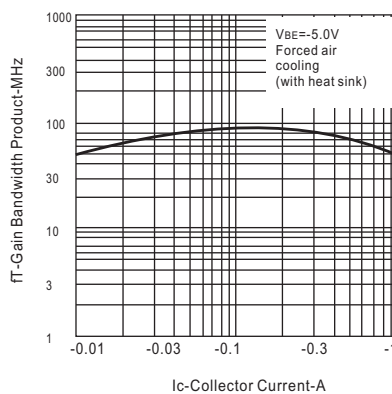
DC CURRENT GAIN BASE TO EMITTER VOLTAGE vs. COLLECTOR CURRENT



BASE AND COLLECTOR SATURATION VOLTAGE vs. COLLECTOR CURRENT



GAIN BANDWIDTH PRODUCT vs COLLECTOR CURRENT



INPUT AND OUTPUT CAPACITANCE REVERSE VOLTAGE

