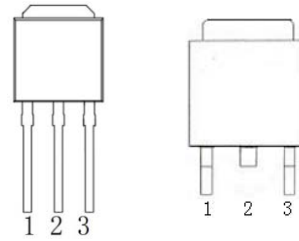


Silicon NPN Power Transistor

FEATURES

1. High Collector-Emitter Voltage
2. Low collector saturation voltage
3. 100% avalanche tested

Marking code: 2SC3632 (-Z)



TO-251
2SC3632

TO-252
2SC3632Z

1: Base 2: Collector 3: Emitter

Maximum ratings(Ta=25℃ unless otherwise noted)

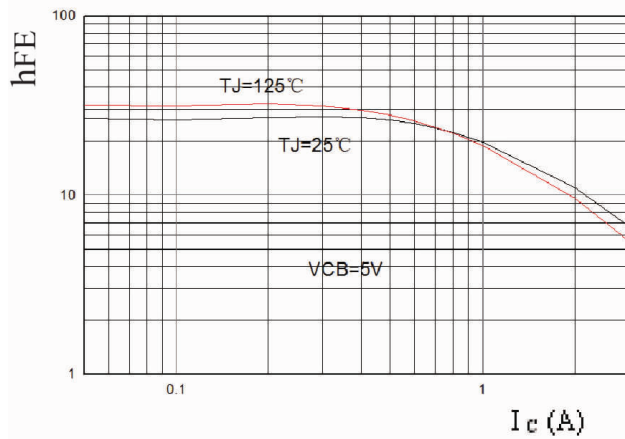
Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	V _{CBO}	600	V
Collector-Emitter Breakdown Voltage	V _{CEO}	600	V
Emitter-Base Breakdown Voltage	V _{EBO}	7	V
Collector Current	I _C	1	A
Collector Power Dissipation	P _C	2	W
Junction Temperature	T _J	150	℃
Storage Temperature	T _{stg}	-55~150	℃

Electrical Characteristics (Ta=25℃ unless otherwise noted)

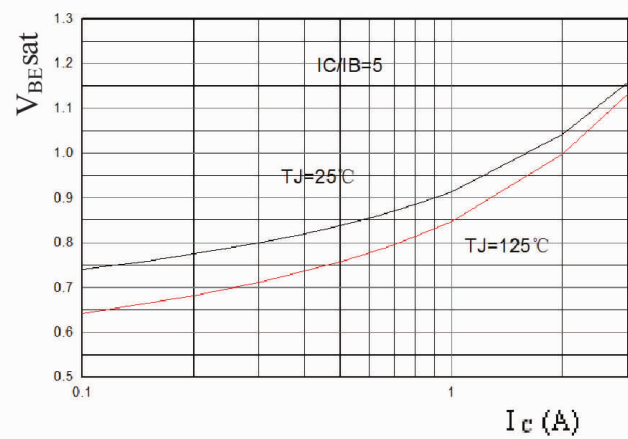
Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{CBO}	I _C =100uA IE=0	600		V
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =1mA IB=0	600		V
Emitter-Base Breakdown Voltage	V _{EBO}	IE=-100uA IC=0	7		V
Collector Cutoff Current	I _{CBO}	V _{CB} =600V IE=0		10	uA
Emitter Cutoff Current	I _{EBO}	V _{EB} =7V IC=0		10	uA
DC Current Gain	HFE(1)	V _{CE} =5V IC=100mA	40	120	
	HFE(2)	V _{CE} =5V IC=500mA	5		
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =400mA IB=80mA		1	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =400mA IB=80mA		1.2	V
Transition frequency	f _T	V _{CE} =5V IE=-50mA	10		MHz
Turn-on time	ton	I _C =0.5A,V _{CC} =250V IB1=IB2=0.1A RL=500Ω		0.5	us
Storage time	tstg			5	
Turn-off time	toff			0.5	
Collector output capacitance	Cob	V _{CB} =10V IE=0mA f=1MHz		30	pF

RATING AND CHARACTERISTICS CURVES (2SC3632, 2SC3632Z)

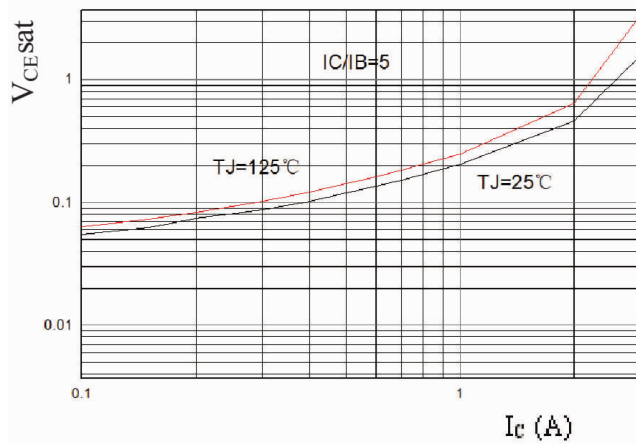
$h_{FE} - I_C$



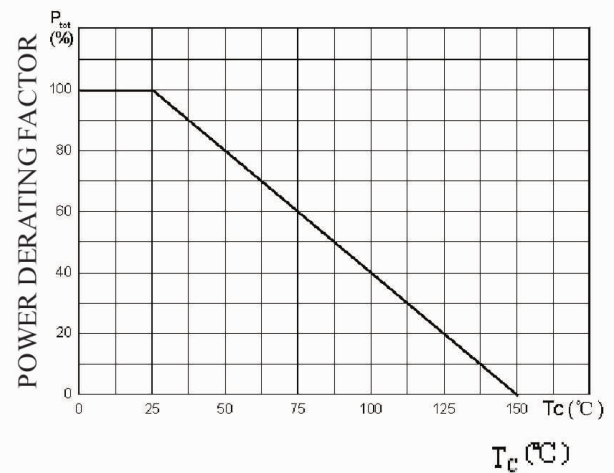
$V_{BE}(\text{sat}) - I_C$



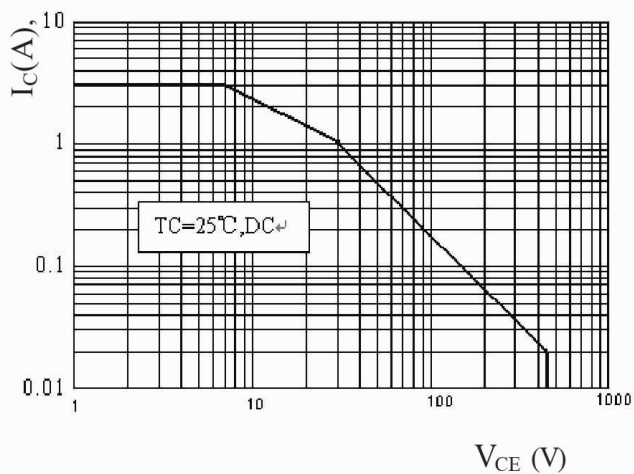
$V_{CE(\text{sat})} - I_C$



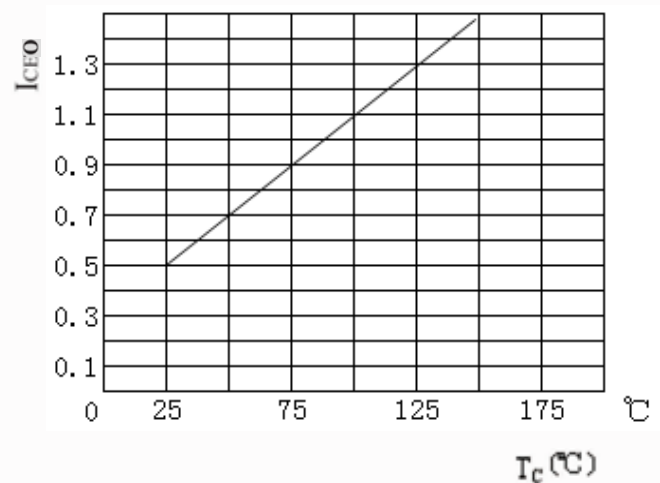
$P_C - T_C$



SOA



$I_{CEO} - T_C$



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