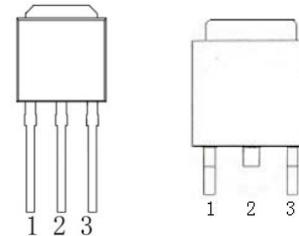


Silicon NPN Power Transistor


 TO-251 TO-252
 2SC3632 2SC3632Z

1: Base 2: Collector 3: Emitter

FEATURES

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

Marking code: 2SC3632 (-Z)

Maximum ratings(Ta=25°C unless otherwise noted)

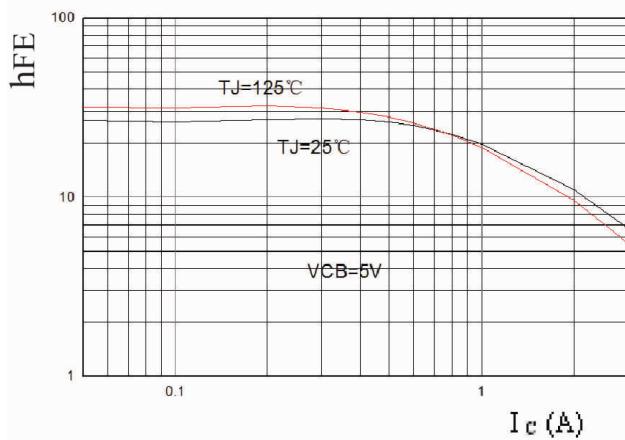
Parameter	Symbol	Value	Unit
Collector-Base Breakdown Voltage	V _{CBO}	600	V
Collector-Emitter Breakdown Voltage	V _{CEO}	600	V
Emitter-Base Breakdown Voltage	V _{EBO}	7	V
Collector Current	I _C	1	A
Collector Power Dissipation	P _C	2	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55~150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

Electrical Characteristics (Ta=25°C unless otherwise noted)

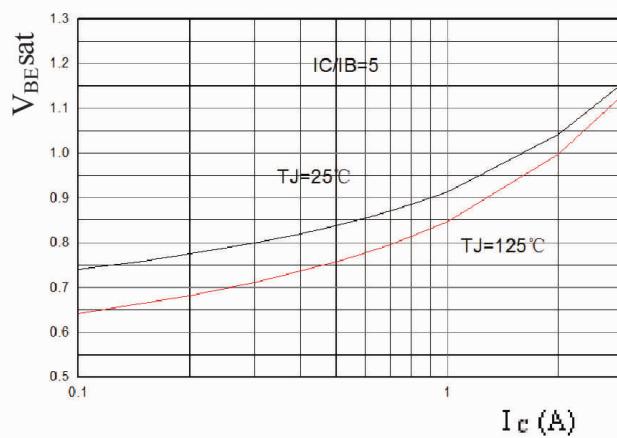
Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	V _{CBO}	I _C =100uA I _E =0	600		V
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =1mA I _B =0	600		V
Emitter-Base Breakdown Voltage	V _{EBO}	I _E =-100uA I _C =0	7		V
Collector Cutoff Current	I _{CBO}	V _{CB} =600V I _E =0		10	uA
Emitter Cutoff Current	I _{EBO}	V _{EB} =7V I _C =0		10	uA
DC Current Gain	HFE(1)	V _{CE} =5V I _C =100mA	40	120	
	HFE(2)	V _{CE} =5V I _C =500mA	5		
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =400mA I _B =80mA		1	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =400mA I _B =80mA		1.2	V
Transition frequency	f _T	V _{CE} =5V I _E =-50mA	10		MHz
Turn-on time	t _{on}	I _C =0.5A, V _{CC} =250V I _{B1} =I _{B2} =0.1A R _L =500Ω		0.5	us
Storage time	t _{STG}			5	
Turn-off time	t _{off}			0.5	
Collector output capacitance	C _{OB}	V _{CB} =10V I _E =0mA f=1MHz		30	pF

RATING AND CHARACTERISTICS CURVES (2SC3632, 2SC3632Z)

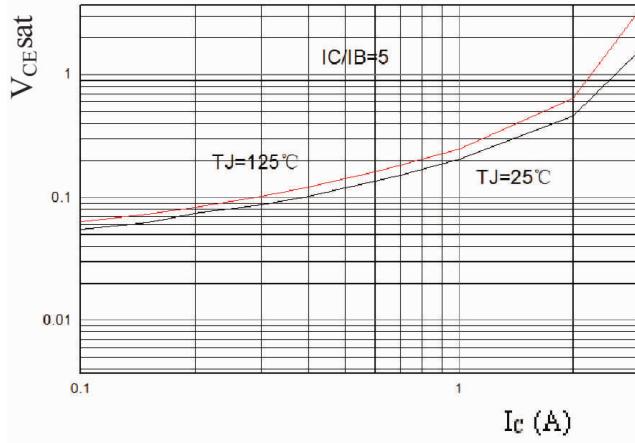
hFE - I_C



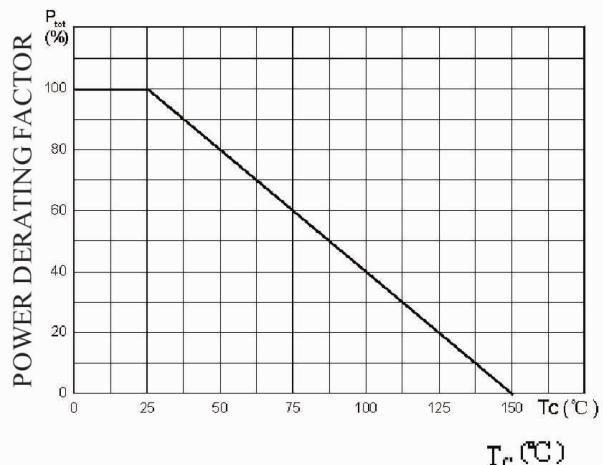
V_{BE} (sat) - I_C



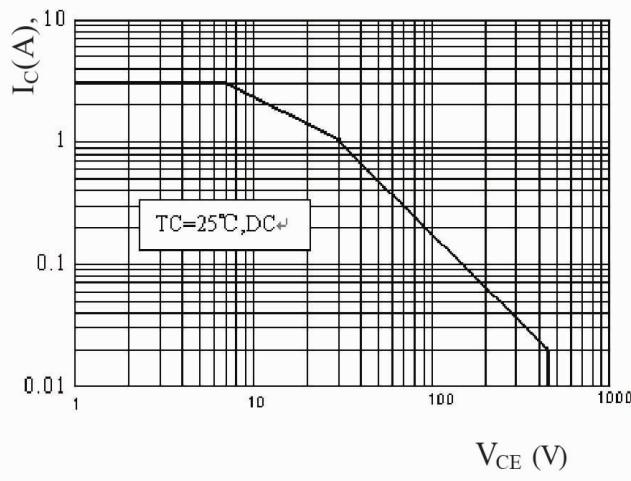
$V_{CE(\text{sat})}$ - I_C



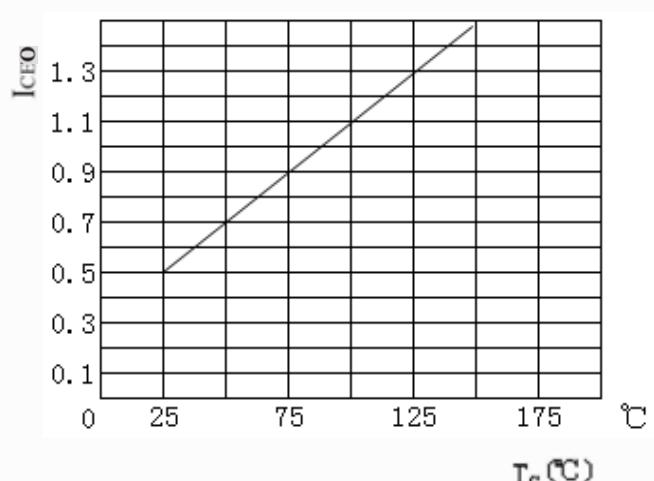
P_C-T_C



SOA



I_{CEO} - T_C



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.