

Absolute Maximum Ratings * Ta = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-100	mA
T _{STG}	Storage Temperature Range	-55~150	°C
TJ	Junction Temperature	150	°C
P _C	Collector Power Dissipation, by R _{0JA}	200	mW

* These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

Thermal Characteristics* Ta=25°C unless otherwise noted

Symbol	Parameter Parameter	Max	Units
R _{0JA}	Thermal Resistance, Junction to Ambient	600	°C/W
* Minimum land pac	size.		

Electrical Characteristics*

$T_{\rm C} = 25^{\circ}$ C unless otherwise noted	
1°_{\circ} = 23 ° 0 unless otherwise noted	

Symbol	Parameter	Test Condition	MIN	Тур	MAX	Units
V(BR)CBO	Collector-Emitter Breakdown Voltage	lc = -100 uA, le = 0	-40	12	L OL	V
V(BR)CEO	Collector-Base Breakdown Voltage	Ic = -1mA, I _B = 0	-40	W W	10. Contraction (1997)	V
Ісво	Collector-Cutoff Current	Vcb = -30 V, IE = 0			-0.1	uA
hfe	DC Current Gain	$V_{CE} = -5 V, I_{C} = -1 mA$	100		600	
Vce(sat)	Collector-Emitter Saturation Voltage	lc = -10 mA, l _B = -1 mA			-0.3	V
fт	Current Gain - Bandwidth Product	Vce = -10V, Ic =- 5 mA		200		MHz
Ccb	Output Capacitance	Vcb = -10 V, IE = 0, f = 1.0 MHz		5.5		pF
R	Input Resistor		7	10	13	KΩ

<mark>* Pulse Test:</mark> PW≤300μs, Duty Cycle≤2%

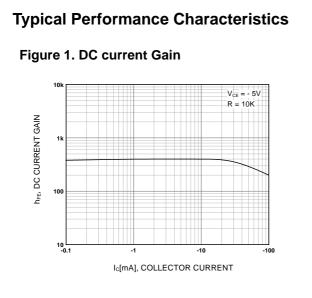


Figure 3. Power Derating

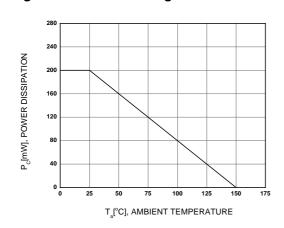
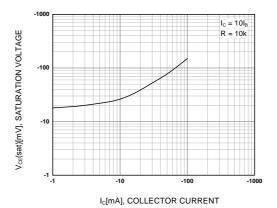
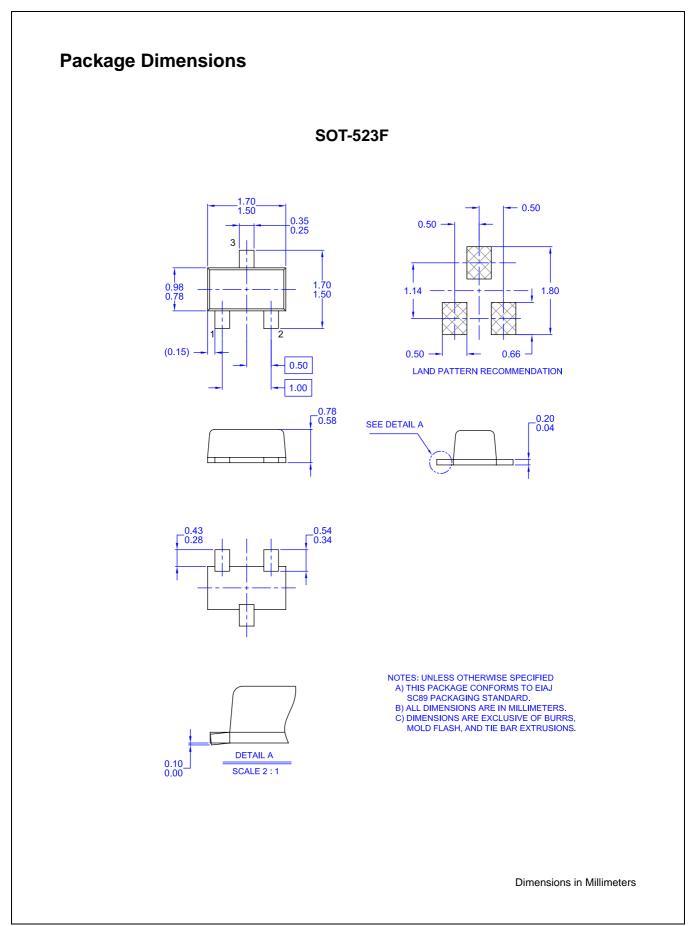


Figure 2. Collector-Emitter Saturation Voltage





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