

Features

- Transistor elements are independent, eliminating interference
- Mounting cost and area can be cut in half
- Low $V_{CE(sat)}$
- RoHS compliant with Halogen-free

HF

Mechanical Data

- Case: SOT-363



Ordering Information

Part Number	Package	Shipping	Marking Code
GLST2515PN	SOT-363	3000 pcs / Tape & Reel	2515

Maximum Ratings (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

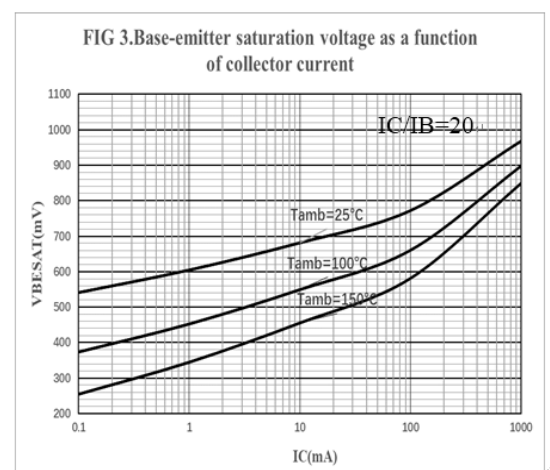
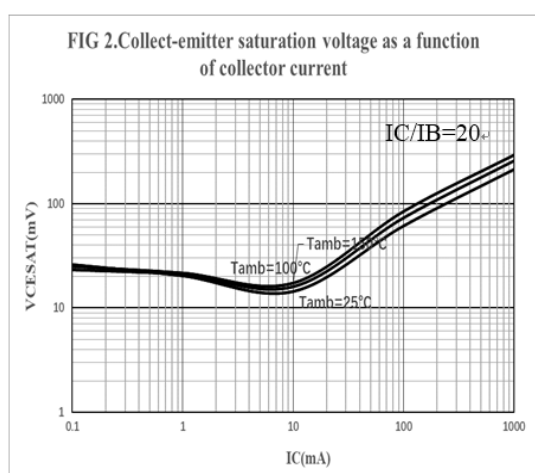
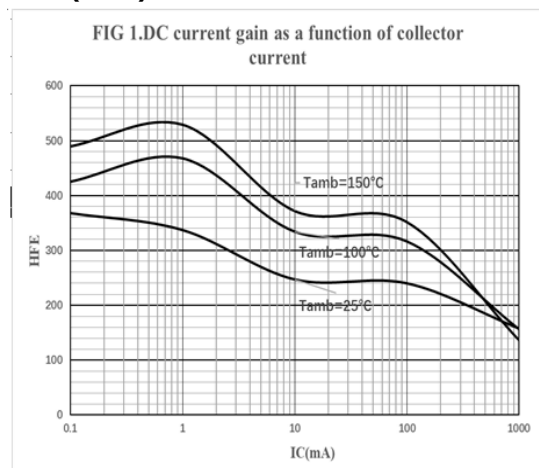
Symbol	Parameter	Value	Unit
Per transistor			
V_{CBO}	Collector-Base Voltage	15	V
V_{CEO}	Collector-Emitter Voltage	15	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current - Continuous	500	mA
Thermal Characteristic			
P_{tot}	Total Power Dissipation, $T_a \leq 25^\circ\text{C}$	200	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_J, T_{stg}	Junction and Storage Temperature	-55 to +150	$^\circ\text{C}$
$R_{th(j-a)}$	Thermal resistance from junction to ambient	625	$^\circ\text{C/W}$

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu\text{A}, I_E = 0$	15	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, I_B = 0$	15	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	6	-	-	V
RCollector Cut-Off Current	I_{CBO}	$V_{CB} = 15\text{V}, I_E = 0$	-	-	0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$	-	-	0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 2\text{V}, I_C = 10\text{mA}$	200	-	-	
Output Capacitance		$V_{CE} = 2\text{V}, I_C = 100\text{mA}$	150	-	-	
Reverse Transfer Capacitance		$V_{CE} = 2\text{V}, I_C = 500\text{mA}$	90	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10\text{mA}, I_B = 0.5\text{mA}$	-	-	25	mV
		$I_C = 200\text{mA}, I_B = 10\text{mA}$	-	-	150	
		$I_C = 500\text{mA}, I_B = 50\text{mA}$	-	-	250	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	-	-	1.1	V
Transition Frequency	f_T	$V_{CE} = 6\text{V}, I_C = 20\text{mA},$ $f = 30\text{MHz}$	150	-	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$	-	-	10	pF

Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

TR1 (NPN):



TR2 (PNP):

FIG 4.DC current gain as a function of collector current

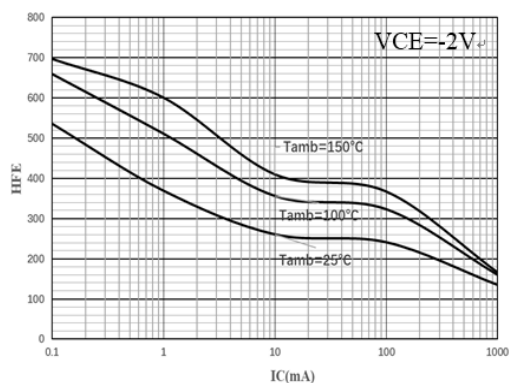


FIG 5.Collect-emitter saturation voltage as a function of collector current

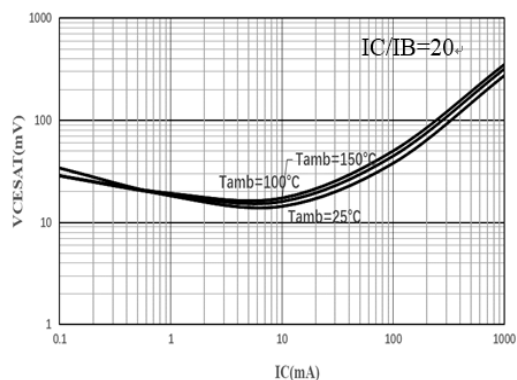
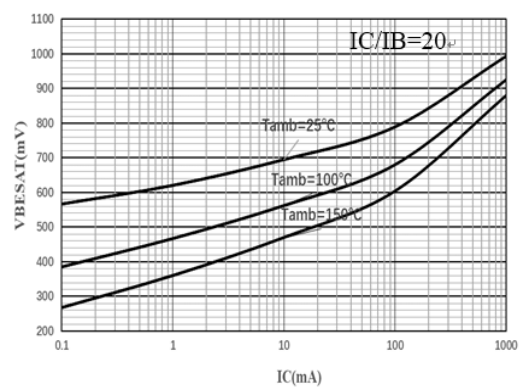
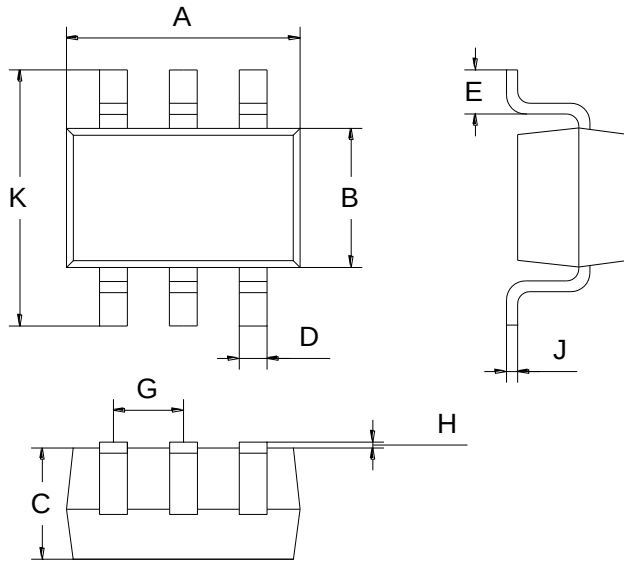


FIG 6.Base-emitter saturation voltage as a function of collector current



Package Outline Dimensions (unit: mm)

SOT-363



SOT-363		
Dim	Min	Max
A	2.00	2.20
B	1.15	1.35
C	0.85	1.05
D	0.15	0.35
E	0.25	0.40
G	0.60	0.70
H	0.02	0.10
J	0.05	0.15
K	2.20	2.40

SOLDERING FOOTPRINT (unit: mm)

