

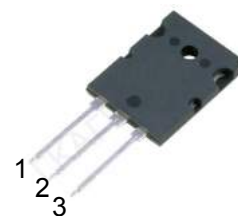
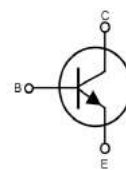
■ Product characteristics

V_{CBO}	1500V
V_{CEO}	800V
H_{FE}	8-30
I_C	25A

■ Applications

High speed
High breakdown voltage
High reliability

Symbol



1:B 2:C 3:E

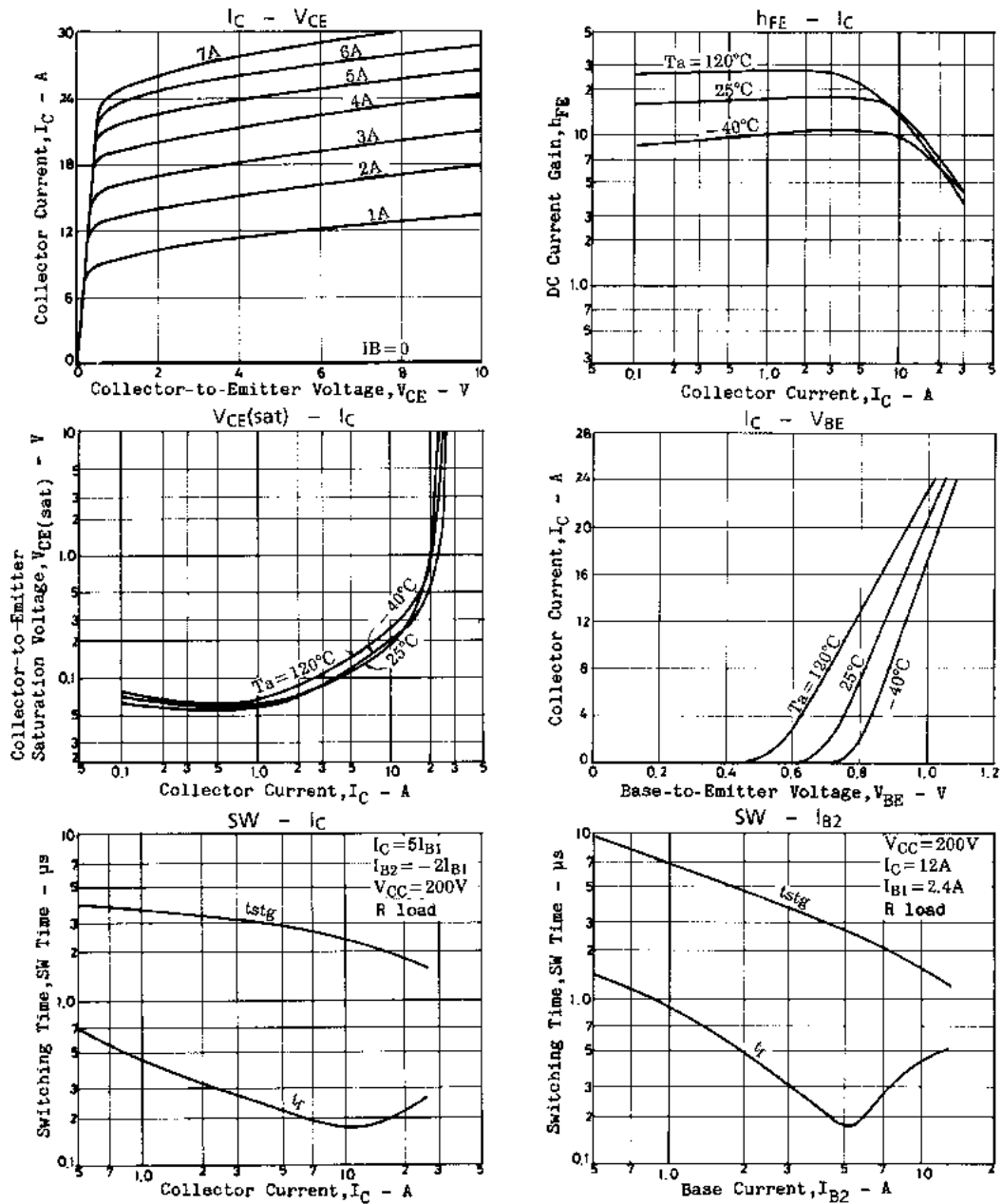
■ ABSOLUTE MAXIMUM RATINGS ($T_C = 25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}	1500	V
Collector-to-Emitter Voltage	V_{CEO}	800	V
Emitter-to-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	25	A
Collector Current (Pulse)	I_{CP}	50	A
Collector Dissipation $T_C=25^\circ\text{C}$	P_C	250	A
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

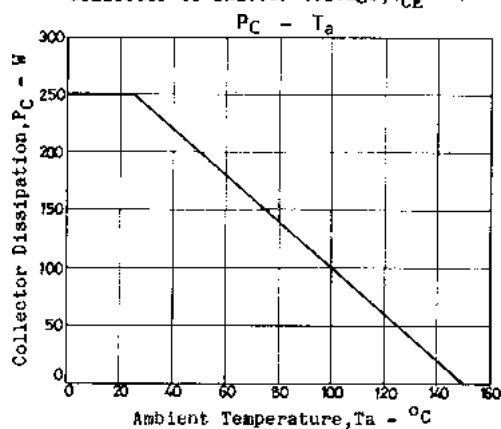
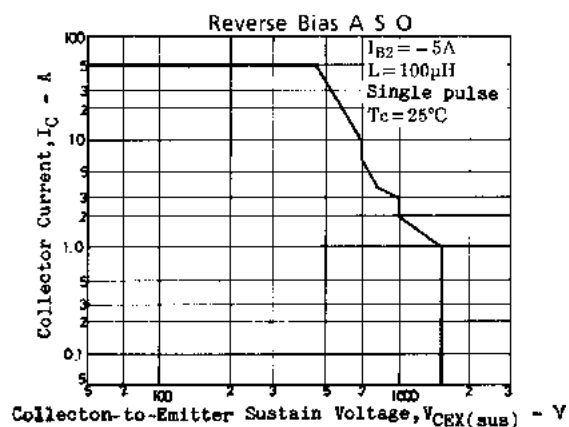
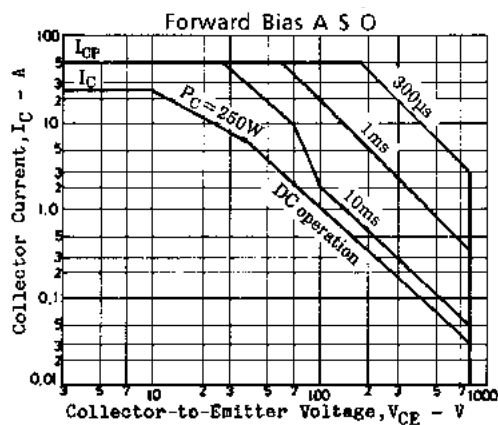
■ Electrical Characteristics ($T_C=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CES}	$V_{CE}=1500\text{V}$			1.0	mA
Collector-to-Emitter Sustain Voltage	$V_{CEO(sus)}$	$I_C=100\text{mA}$, $I_B=0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}$, $I_C=0$			1.0	mA
Collector Cutoff Current	I_{CBO}	$V_{CB}=800\text{V}$, $I_E=0$			10	μA
DC Current Gain	h_{FE1}	$V_{CE}=5\text{V}$, $I_C=1.0\text{A}$	8		30	
	h_{FE2}	$V_{CE}=5\text{V}$, $I_C=20\text{A}$	4		8	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20\text{A}$, $I_B=5\text{A}$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20\text{A}$, $I_B=5\text{A}$			1.5	V
Storage Time	t_{stg}	$I_C=12\text{A}$, $I_{B1}=2.4\text{A}$, $I_{B2}=4.8\text{A}$			3	μs
Fall Time	t_f	$I_C=12\text{A}$, $I_{B1}=2.4\text{A}$, $I_{B2}=4.8\text{A}$			0.2	μs

■ Typical Performance Characteristics



■ Typical Performance Characteristics(Cont.)



■ TO-3PL Package mechanical data

