TRIPLE DIFFUSED PLANER TYPE HIGH VOLTAGE, HIGH SPEED SWITCHING

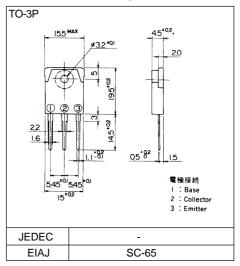
■ Features

- High voltage, High speed switching
- High reliability

Applications

- Switching regulators
- Ultrasonic generators
- High frequency inverters
- General purpose power amplifiers

■ Outline Drawings



■ Maximum ratings and characteristics

● Absolute maximum ratings (Tc=25°C unless otherwise specified)

Item	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	900	V
Collector-Emitter voltage	VCEO	800	V
Collector-Emitter voltage	VCEO(SUS)	-	V
Emitter-Base voltage	VEBO	10	V
Collector current	Ic	5	Α
Base current	lв	3	A
Collector power disspation	Pc	80	W
Operating junction temperature	Tj	+150	∞
Storage temperature	Tstg	-55 to +150	∞
	•		•

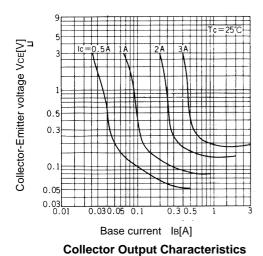
● Electrical characteristics (Tc =25°C unless otherwise specified)

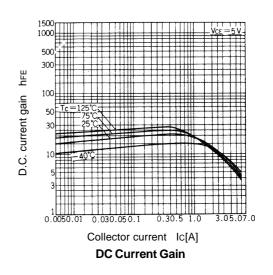
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Collector-Base voltage	Vсво	ICBO = 1mA	900			V
Collector-Emitter voltage	VCEO	ICEO = 10mA	800			V
Collector-Emitter voltage	VCEO(SUS)		-	-		V
Emitter-Base voltage	VEBO	IEBO = 1mA	10	-		V
Collector-Base leakage current	Ісво	VcBo = 900V		-	1.0	mA
Emitter-Base leakage current	IEBO	VEBO = 10V		-	1.0	mA
D.C. current gain	hFE	IC = 2A, VCE = 5V	10			
Collector-Emitter saturation voltage	VCE(Sat)	IC = 2A, IB = 0.4A			1.0	V
Base-Emitter saturation voltage	VBE(Sat)				1.5	V
*1	ton	IC = 3A, IB1 = 0.6A			1.0	μs
Switching time	t stg	B2 = -1.2A, R∟ = 100 ohm			4.0	μs
	tf	Pw = 20 µs Duty=<2%			0.8	μs

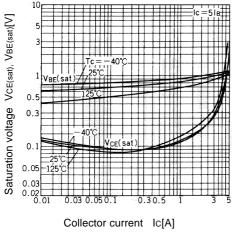
Thermal characteristics

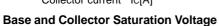
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Thermal resistance	Rth(j-c)	Junction to case			1.5	°C/W

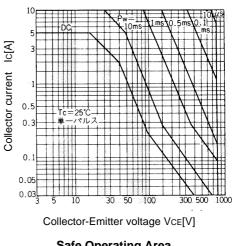
Characteristics



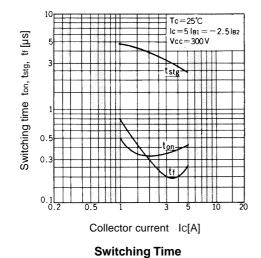








Safe Operating Area



*1 Switching Time Test Circuit

