TRIPLE DIFFUSED PLANER TYPE HIGH SPEED SWITCHING

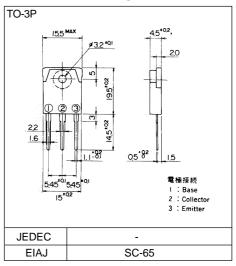
■ Features

- High voltage, High speed switching
- Low saturation voltage
- High reliability

Applications

- Colour & B/W TV power supply
- Active power filter
- Industrial use power supply(series regulator)
- 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	250	V
Collector-Emitter voltage	VCEO	200	V
Collector-Emitter voltage	VCEO(SUS)	-	V
Emitter-Base voltage	Vево	7	V
Collector current	lc	15	A
Base current	lв	5	Α
Collector power disspation	Pc	100	W
Operating junction temperature	T _j	+150	℃
Storage temperature	Tstg	-55 to +150	℃

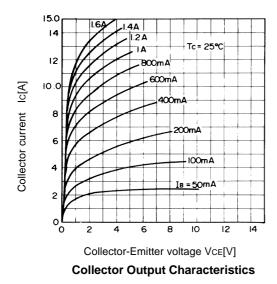
● Electrical characteristics (Tc =25°C unless otherwise specified)

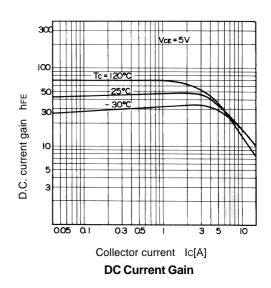
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Collector-Base voltage	Vсво	ICBO = 0.1mA	250			V
Collector-Emitter voltage	VCEO	ICEO = 10mA	200			V
Collector-Emitter voltage	VCEO(SUS)		-	-		V
Emitter-Base voltage	VEBO	IEBO = 0.1mA	7	-		V
Collector-Base leakage current	Ісво	VCBO = 250V		-	0.1	mA
Emitter-Base leakage current	I EBO	VEBO = 7V		-	0.1	mA
D.C. current gain	hfe	IC = 2A, VCE = 5V	20	40	80	
Collector-Emitter saturation voltage	VCE(Sat)	Ic = 6A, IB = 1.2A			0.8	V
Base-Emitter saturation voltage	VBE(Sat)				1.2	V
*1	t on	IC = 10A, IB1 = -IB2 = 2A			0.8	μs
Switching time	t stg	RL = 5 ohm, Pw = 20µs Duty=<2%			1.5	μs
	tf				0.4	μs

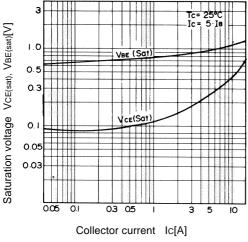
Thermal characteristics

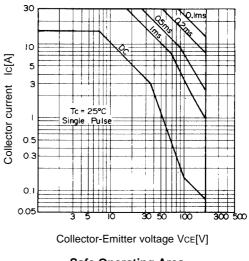
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Thermal resistance	Rth(j-c)	Junction to case			1.25	°C/W

Characteristics

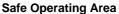


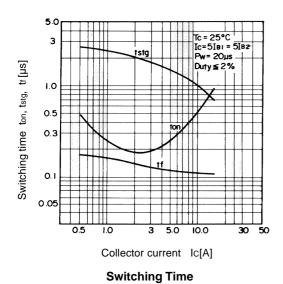






Base and Collector Saturation Voltage





*1 Switching Time Test Circuit

