

# 2SD1576

## Silicon NPN Triple-Diffused Junction Mesa Type

### Horizontal Deflection Output

#### ■ Features

- High breakdown voltage and high reliability by glass passivation
- High speed switching
- Wide area of safety operation (ASO)
- "Full Pack" package for simplified mounting on a heat sink with one screw

#### ■ Absolute Maximum Ratings (T<sub>c</sub>=25°C)

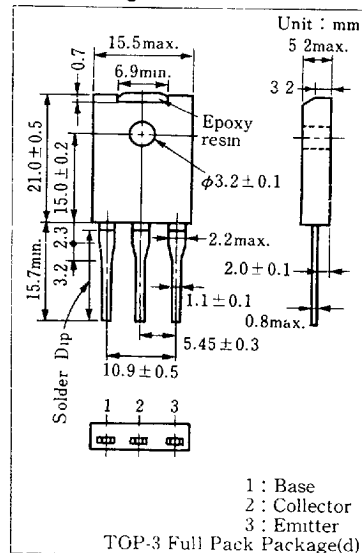
Item	Symbol	Value	Unit	
Collector-base voltage	V <sub>CB0</sub>	1500	V	
	V <sub>CE(s)</sub>	1500	V	
Collector-emitter voltage	V <sub>CE0</sub>	700	V	
	V <sub>EB0</sub>	6	V	
Collector current	I <sub>C</sub>	2	A	
Peak collector current	I <sub>CP</sub> *	6	A	
Peak base current	I <sub>BP</sub>	2.5	A	
Reverse peak base current	I <sub>BP</sub>	-1.5	A	
Collector power dissipation	P <sub>C</sub>	T <sub>c</sub> = 25°C	80	W
		T <sub>a</sub> = 25°C	2.5	
Junction temperature	T <sub>J</sub>	150	°C	
Storage temperature	T <sub>stg</sub>	-55 ~ +150	°C	

\* Non repetitive peak value

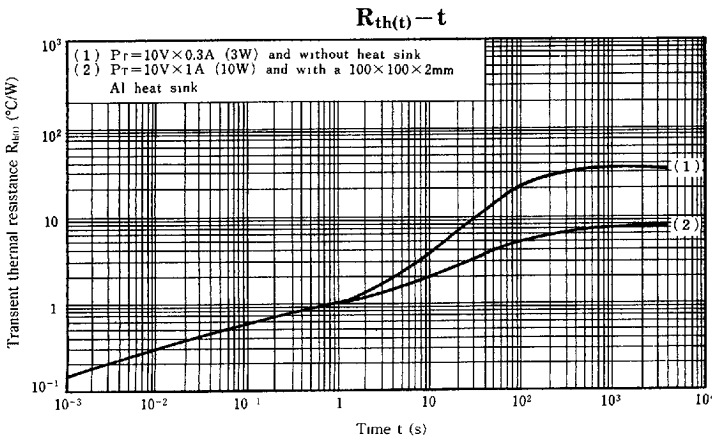
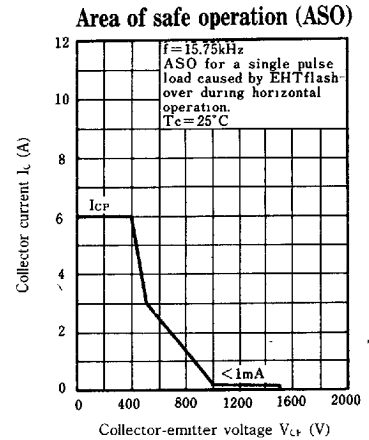
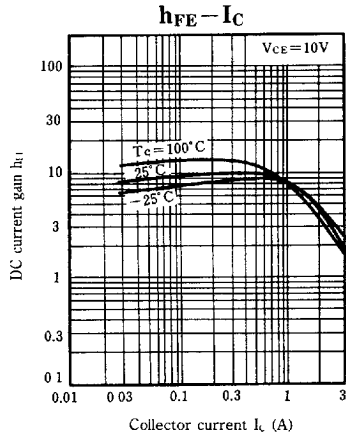
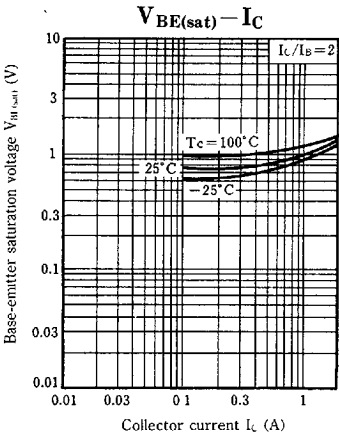
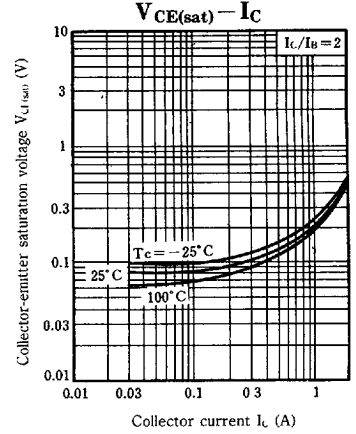
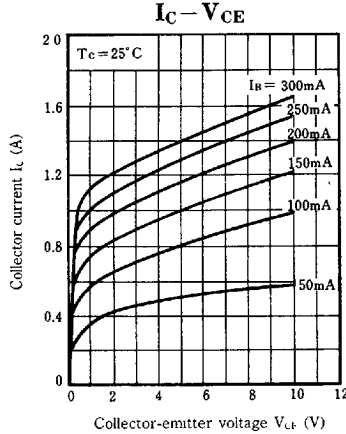
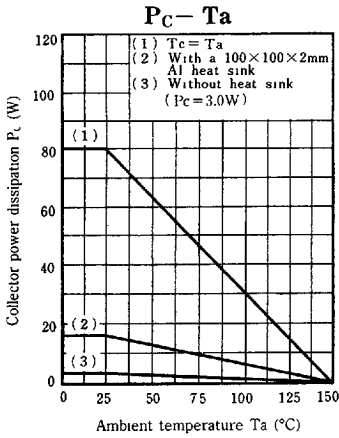
#### ■ Electrical Characteristics (T<sub>c</sub>=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I <sub>CBO</sub>	V <sub>CB</sub> = 750V, I <sub>E</sub> = 0			50	μA
		V <sub>CB</sub> = 1500V, I <sub>E</sub> = 0			1	mA
Emitter-base voltage	V <sub>EB0</sub>	I <sub>E</sub> = 1 mA, I <sub>C</sub> = 0	6			V
DC current gain	h <sub>FF</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 2A	2		5	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 1A			5	V
Base-emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = 2A, I <sub>B</sub> = 1A			1.5	V
Transition frequency	f <sub>1</sub>	V <sub>CL</sub> = 10V, I <sub>C</sub> = 0.5A, f = 0.5MHz		2		MHz
Fall time	t <sub>f</sub>	I <sub>C</sub> = 2.5A, I <sub>Bend</sub> = 1.1A			1	μs
Storage time	t <sub>stg</sub>	L <sub>B</sub> = 10 μH			9	μs

#### ■ Package Dimensions



■ 6932852 0016768 30T ■



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