

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

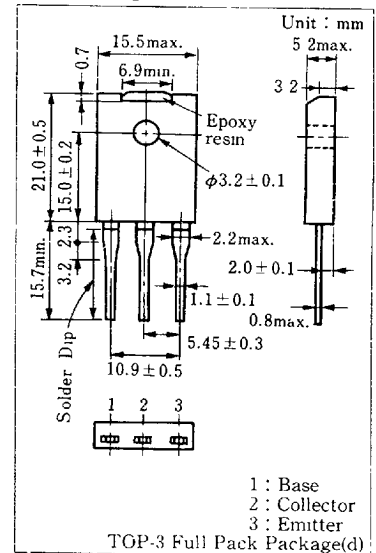
■ Absolute Maximum Ratings (T_c=25°C)

Item	Symbol	Value	Unit
Collector-base voltage	V _{CB0}	1500	V
	V _{CE(s)}	1500	V
Collector-emitter voltage	V _{CE0}	700	V
	V _{EB0}	6	V
Collector current	I _C	2	A
Peak collector current	I _{CP} *	6	A
Peak base current	I _{BP}	2.5	A
Reverse peak base current	I _{BP}	-1.5	A
Collector power dissipation	P _C	T _c = 25°C	80
		T _a = 25°C	2.5
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 ~ +150	°C

* Non repetitive peak value

■ Electrical Characteristics (T_c=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I _{CB0}	V _{CB} = 750V, I _L = 0			50	μA
		V _{CB} = 1500V, I _L = 0			1	mA
Emitter-base voltage	V _{EB0}	I _L = 1 mA, I _C = 0	6			V
DC current gain	h _{FF}	V _{CE} = 5V, I _C = 2A	2		5	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 2A, I _B = 1A			5	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C = 2A, I _B = 1A			1.5	V
Transition frequency	f ₁	V _{CL} = 10V, I _C = 0.5A, f = 0.5MHz		2		MHz
Fall time	t _f	I _C = 2.5A, I _{Bend} = 1.1A			1	μs
Storage time	t _{stg}	L _B = 10 μH			9	μs

■ Package Dimensions

6932852 0016768 30T

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