# 2SD1632

## Silicon NPN Triple-Diffused Junction Mesa Type

Horizontal Deflection Output

#### ■ Features

- Damper diode built-in
- 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

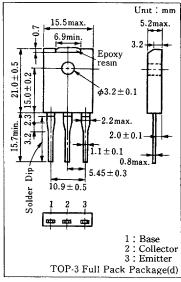
## ■ Absolute Maximum Ratings (Tc=25°C)

Item		Symbol	Value	Unit	
Collector-base voltage		V <sub>CBO</sub>	1500	V	
Collector-emitter voltage		V <sub>CES</sub>	1500	V	
Emitter-base voltage		V <sub>EBO</sub>	5	V	
Collector current		Ic	4	A	
Peak collector current		I <sub>CP</sub> *	15	A	
Peak base current		I <sub>BP</sub>	3.5	A	
Reverse peak base current		$I_{BP}$	-2.5	A	
Collector power dissipation	Tc=25°C	D	70	***	
	Ta=25°C	$P_{C}$	3	W	
Junction temperature		T,	130	°C	
Storage temperature		Tstg	-55~+130	°C	

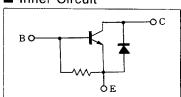
<sup>\*</sup> Non-repetitive peak value

### ■ Package Dimensions

www.DataSheet4U.com



#### ■ Inner Circuit



## ■ Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	Ісво	$V_{CB} = 750 \text{ V}, I_{E} = 0$			50	μA
		$V_{CB} = 1500 \text{ V}, I_E = 0$			1	mA
Emitter-base voltage	$V_{EBO}$	$I_E = 500 \text{ mA}, I_C = 0$	5			
DC current gain	$h_{FE}$	$V_{CE} = 10 \text{ V}, I_{C} = 3 \text{ A}$	5		15	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	$I_C = 3 A, I_B = 1 A$			1	V
Base-emitter saturation voltage	VBE(sat)	$I_{C} = 3 \text{ A}, I_{B} = 1 \text{ A}$			1.5	V
Transition frequency	$f_{\mathrm{T}}$	$V_{CE} = 10V, I_{C} = 1A, f = 0.5MHz$		2		MHz
Fall time	t <sub>t</sub>	$I_C = 3A$ , $I_{Bend} = 1A$			0.75	μs
Storage time	t <sub>stg</sub>	$L_{\text{leak}} = 5 \mu  \text{H}$	4		9	μs
Diode forward voltage	$V_{\rm F}$	$I_{\rm C} = -4A, I_{\rm B} = 0$			-2.2	v

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