2SD 1439

Silicon NPN Triple-Diffused Junction Mesa Type

Horizontal Deflection Output

■ Features

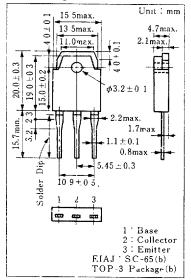
- Damper diode built-in
- High breakdown voltage and high reliability by glass passivation
- High speed switching
- Wide area of safety operation (ASO)

■ Absolute Maximum Ratings (Tc=25°C)

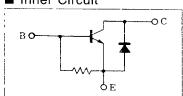
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Item		Symbol	Value	Unit
Collector-base voltage		V _{CBO}	1500	V
Collector-emitter voltage		Vcts	1500	
Emitter-base voltage		AFBO	5	- V
Collector current		Ic	3	A
Peak collector current		I _{CP} *	10	A
Peak base current		IBP	3.5	A
Reverse peak base current		IBP	- 25	A
Collector power dissipation	Tc = 25℃		50	
	Ta=25°C	P_{ζ}	2.5	W
Junction temperature		Т,	130	°C
Storage temperature		Tstg	-55~+130	°C
* 31				

^{*} Non repetitive peak value

Package Dimensions



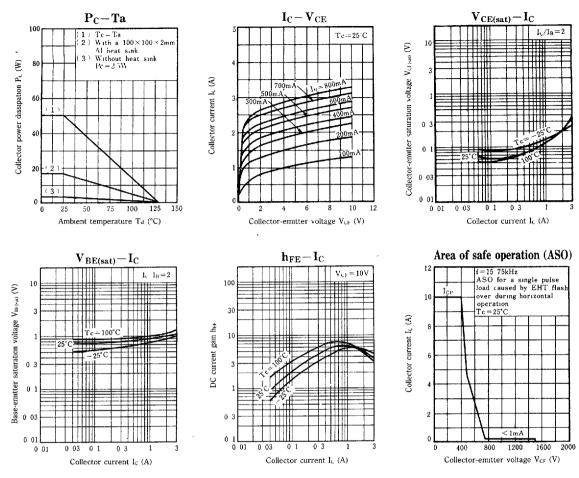
■ Inner Circuit

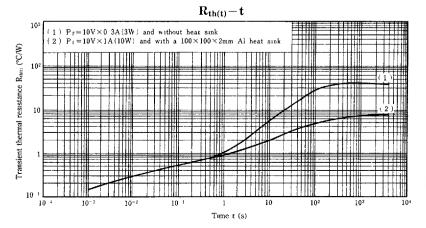


■ Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max	Unit
Collector cutoff current	Ісво	$V_{CB} = 750 \text{ V}, I_L = 0$			50	μA
		$V_{CB} = 1500 \text{ V}, I_F = 0$			1	mA
Emitter-base voltage	V_{EBO}	$I_F = 500 \text{ mA}, I_C = 0$	õ			V
DC current gain	$h_{\Gamma E}$	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ A}$	4		12	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 2 A, I_B = 0.75 A$			5	v
Base-emitter saturation voltage	V _{BE(sat)}	$I_C = 2 \text{ A}, I_B = 0.75 \text{ A}$			1.5	v
Transition frequency	f_{T}	$V_{CE} = 10V, I_C = 0.5A, f = 0.5MHz$		2		MHz
Fall time	t;	$I_{\rm C} = 2A, I_{\rm Bend} = 0.75A$			0.75	μς
Storage time	tstg	$L_{leak} = 5 \mu H$	www.E)ataShe	et4Uzco	, ,
Diode forward voltage	V_{F}	$V_{CL} = 10V$, $I_C = 0.5A$, $f = 0.5MHz$			-2.2	$\frac{1}{V}$

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