2SD1846

Silicon NPN Triple-Diffused Planar Type

Horizontal Deflection Output

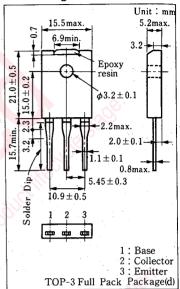
■ Features

- Damper diode built-in
- Minimizes external component counts and simplifies circuitry
- High breakdown voltage, high reliability
- High speed switching
- Wide area of safety operation (ASO)
- "Full Pack" package for simplified mounting on a heat sink with one

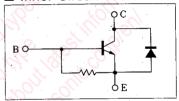
■ Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Value	Unit	
Collector-base voltage	V _{CBO}	1500	V	
C-llaster emitter valtage	V _{CES}	1500	V	
Collector-emitter voltage	V_{CEO}	700	V	
Emitter-base voltage	V_{EBO}	7	v	
Peak collector current	I _{CP}	10	Α	
Collector current	$I_{\mathbf{C}}$	3.5	(A)	
Base current	I_{B}	1.5	A O	
Collector power $T_C = 25^{\circ}C$	D	60	W	
dissipation Ta=25°C	Pc	3	W C	
Junction temperature	T_{i}	150	C	
Storage temperature	T_{stg}	-55~+150	0,0	
		17 . 0	100	

■ Package Dimensions



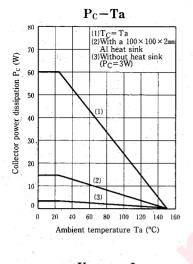
■ Inner Circuit

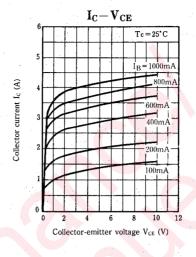


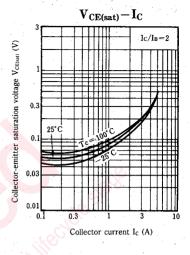
■ Electrical Characteristics (Tc=25°C)

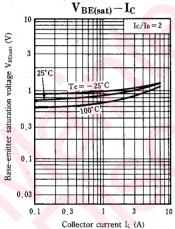
Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 750V, I_{E} = 0$) .		10	μA
		$V_{CB} = 1500V, I_{E} = 0$			1	mA
Emitter-base voltage	V_{EBO}	$I_{\rm E} = 500 \rm mA, \ I_{\rm C} = 0$	7			V
DC current gain	h_{FE}	$V_{CE} = 5V, I_{C} = 0.5A$	5		.25	
		$V_{CE} = 10V, I_C = 3A$	4			1
Collector-emitter saturation voltage	V _{CE} (sat)	$I_{\rm C} = 3A, I_{\rm B} = 0.8A$			8	V
Base-emitter saturation voltage	V _{BE (sat)}	$I_C = 3A, I_B = 0.8A$			1.5	V
Transition frequency	f_{T}	$V_{CE} = 10V$, $I_C = 0.5A$, $f = 0.5MHz$		2		MHz
Storage time (L load)	t _{stg}	$I_{\rm C} = 3A, I_{\rm B1} = 0.8A$			8	μs
Collector current fall time (L load)	tí	$I_{B2} = -0.8A, L_{leak} = 5 \mu H$			0.8	μs
Storage time (R load)	t _{stg}	$I_C = 3A$, $I_{B1} = 0.8A$		1.5		μs
Collector current fall time (R load)	tí	$I_{B2} = -1.6A, V_{CC} = 200V$		0.2		μs
Diode forward voltage	Vi	$I_{\rm C} = -3.5 A, I_{\rm B} = 0$			2	V

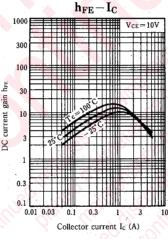


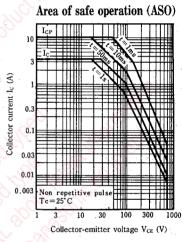


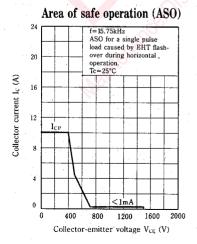


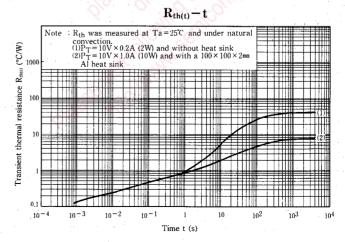












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