2SD1350, 2SD1350A

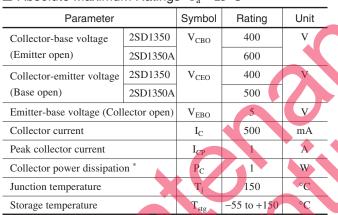
Silicon NPN triple diffusion planar type

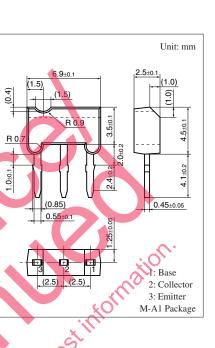
For high breakdown voltage switching

Features

- High collector-base voltage (Emitter open) V_{CBO}
- Large collector power dissipation P_C
- Low collector-emitter saturation voltage $V_{CE(sat)}$
- M type package, allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

Absolute Maximum Ratings $T_a = 25^{\circ}C$



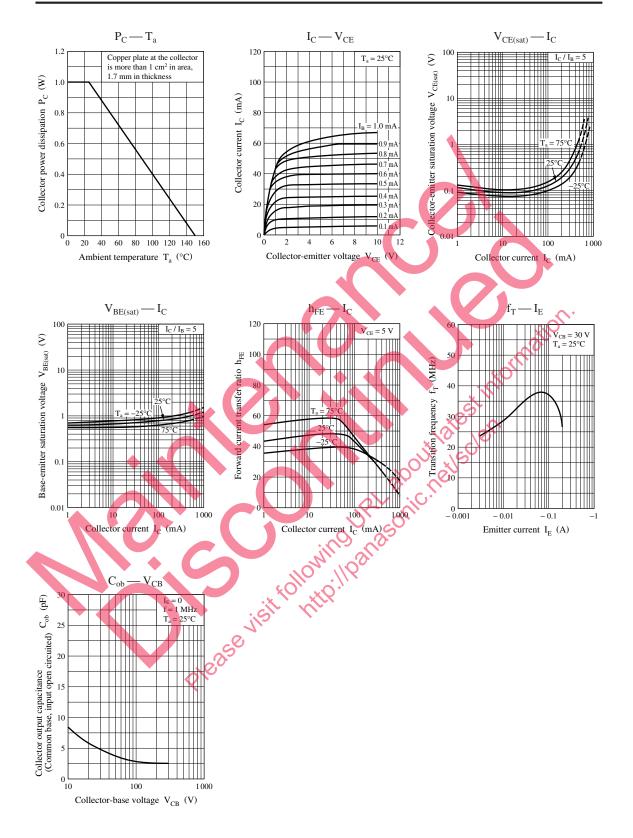


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

				$-c(\mathbf{N})$	M A	1 Doolec -	
Peak collector current	I _{CP}	1 A			M-A	1 Package	
Collector power dissipation *	P _C	1 W					
Junction temperature	Tj	150 °C	×0 ²	\mathbf{A}			
Storage temperature	T _{stg} -	-55 to +150 °C		0			
Note) *: Printed circuit board: Copper board thickness of 1.7 mm fo	foil area of 1 r the collector	cm ² or more, and the portion ± 3°C	about latest				
Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Collector-base voltage 2SD13:	50 V _{CBO}	$I_{\rm C} = 100 \mu{\rm A}, I_{\rm E} = 0$	400			V	
(Emitter open) 2SD135	0A	MIL OIL	600				
Collector-emitter voltage 2SD13.	50 V _{CEO}	$I_{\rm C} = 500 \ \mu A, I_{\rm B} = 0$	400			V	
(Base open) 2SD135	0A	× 40 ×18.	500				
Emitter-base voltage (Collector oper) V _{EBO}	$I_{\rm E} = 100 \mu \text{A}, I_{\rm C} = 0$	5			V	
Forward current transfer ratio	hre	$V_{CE} = 5 \text{ V}, I_C = 30 \text{ mA}$	30			_	
Collector-emitter saturation voltage	VCE(sat)	$I_{\rm C} = 250 \text{ mA}, I_{\rm B} = 50 \text{ mA}$			1.5	V	
Base-emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 250 \text{ mA}, I_{\rm B} = 50 \text{ mA}$			1.5	V	
Transition frequency	f _T	$V_{CB} = 30 \text{ V}, I_E = -20 \text{ mA}, \text{ f} =$	= 200 MHz	55		MHz	
Collector output capacitance (Common base, input open circuited) C _{ob}	$V_{CB} = 30 \text{ V}, I_E = 0, f = 1 \text{ MH}$	łz		7	pF	
Turn-on time	t _{on}	$V_{CC} = 200 \text{ V}, I_C = 100 \text{ mA}$ $I_{B1} = 10 \text{ mA}, I_{B2} = -10 \text{ mA}$		0.4		μs	
Fall time	t _f	$V_{CC} = 200 \text{ V}, I_C = 100 \text{ mA}$ $I_{B1} = 10 \text{ mA}, I_{B2} = -10 \text{ mA}$		0.7		μs	
Storage time	t _{stg}	$V_{CC} = 200 \text{ V}, I_C = 100 \text{ mA}$ $I_{B1} = 10 \text{ mA}, I_{B2} = -10 \text{ mA}$		3.6		μs	

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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