

2SD1734

PANASONIC INDL/ELEK(SEMI) 69E D

Silicon PNP Triple-Diffused Planar Type

Horizontal Deflection Output

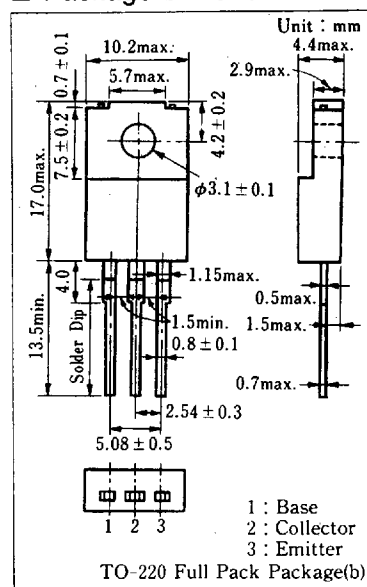
■ Features

- 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 screw

■ Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Value	Unit
Collector-base voltage	V_{CB0}	1500	V
Collector-emitter voltage	V_{CES}	1500	V
	V_{CEO}	700	V
Emitter-base voltage	V_{EBO}	7	V
Peak collector current	I_{CP}	5	A
Collector current	I_C	1.5	A
Base current	I_B	0.6	A
Collector power dissipation	P_C	40	W
		2.0	
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

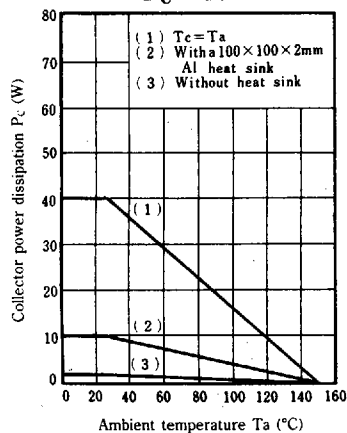
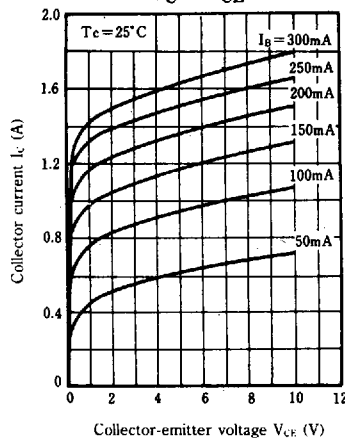
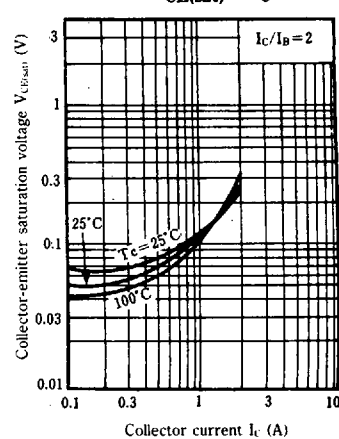
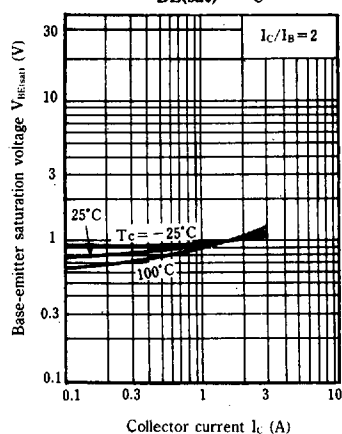
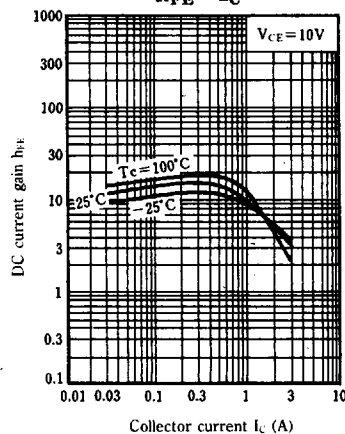
■ Package Dimensions



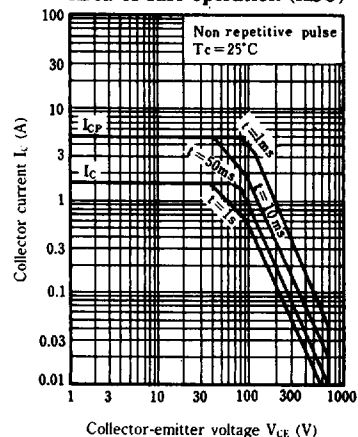
■ Electrical Characteristics (Tc=25°C)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	I_{CB0}	$V_{CB}=750\text{ V}, I_E=0$			10	μA
		$V_{CB}=1500\text{ V}, I_E=0$			1	mA
Emitter-base voltage	V_{EBO}	$I_E=500\text{ mA}, I_C=0$	7			V
DC current gain	h_{FE}	$V_{CE}=5\text{ V}, I_C=0.5\text{ A}$	6		30	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1\text{ A}, I_B=0.4\text{ A}$			8	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=1\text{ A}, I_B=0.4\text{ A}$			1.5	V
Transition frequency	f_T	$V_{CE}=10\text{ V}, I_C=0.5, f=0.5\text{ MHz}$		2		MHz
Storage time (L load)	t_{stg}	$I_C=1\text{ A}, I_{B1}=0.3\text{ A}$			6	μs
Fall time (L load)	t_f	$I_{B2}=-0.3\text{ A}, L_B=5\text{ }\mu\text{H}$			0.8	μs
Storage time (R load)	t_{stg}	$I_C=1\text{ A}, I_{B1}=0.3\text{ A}$		1		μs
Fall time (R load)	t_f	$I_{B2}=-0.6\text{ A}, V_{CC}=200\text{ V}$		0.2		μs

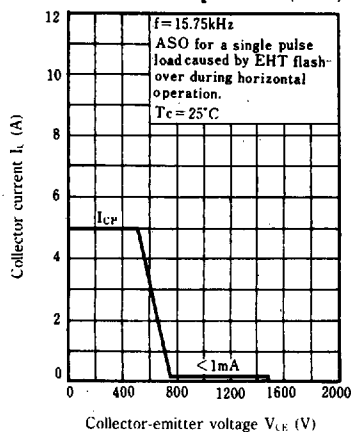
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 $P_C - T_a$  $I_C - V_{CE}$  $V_{CE(sat)} - I_C$  $V_{BE(sat)} - I_C$  $h_{FE} - I_C$ 

Area of safe operation (ASO)



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 $R_{th(t)} - t$ 