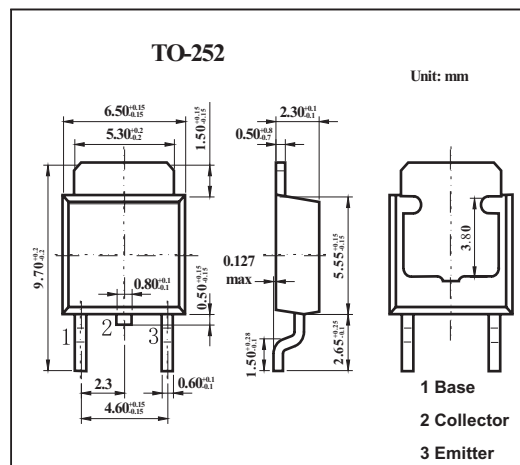


2SD1259;2SD1259A

■ Features

- High forward current transfer ratio hFE.
- Satisfactory linearity of forward current transfer ratio hFE.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CB0}	80	V
		100	V
Collector-emitter voltage	V _{CEO}	60	V
		80	V
Emitter-base voltage	V _{EB0}	6	V
Collector current	I _C	3	A
Peak collector current	I _{CP}	6	A
Base current	I _B	1	A
Collector power dissipation Ta = 25°C	P _C	1.3	W
		40	W
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector-emitter voltage	V _{CEO}	I _C = 25 mA, I _B = 0	60			V
			80			V
Collector-base cutoff current	I _{CB0}	V _{CB} = 80 V, I _E = 0			100	μA
		V _{CB} = 100 V, I _E = 0			100	μA
Collector-emitter cutoff current	I _{CEO}	V _{CE} = 40 V, I _B = 0			100	μA
Emitter-base cutoff current	I _{EB0}	V _{EB} = 6 V, I _C = 0			100	μA
Forward current transfer ratio	h _{FE}	V _{CE} = 4 V, I _C = 0.5 A	500		2500	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 2 A, I _B = 0.05 A			1.0	V
Transition frequency	f _T	V _{CE} = 12 V, I _C = 0.2 A, f = 10 MHz		50		MHz

■ hFE Classification

Rank	Q	P	O
hFE	500~1000	800~1500	1200~2500