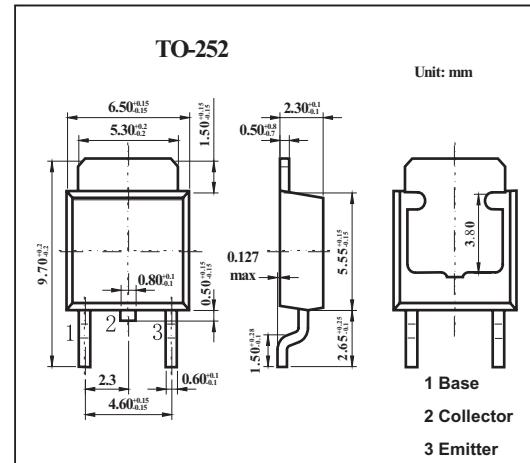


Silicon NPN Triple Diffusion Planar Type

2SD1259;2SD1259A



■ Features

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

Parameter		Symbol	Rating	Unit
Collector-base voltage	2SD1259	V _{CBO}	80	V
	2SD1259A		100	V
Collector-emitter voltage	2SD1259	V _{CEO}	60	V
	2SD1259A		80	V
Emitter-base voltage		V _{EBO}	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	2SD1259	V _{CEO}	I _C = 25 mA, I _B = 0	60			V
	2SD1259A			80			V
Collector-base cutoff current	2SD1259	I _{CBO}	V _{CB} = 80 V, I _E = 0			100	µA
	2SD1259A		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 _{EBO}	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