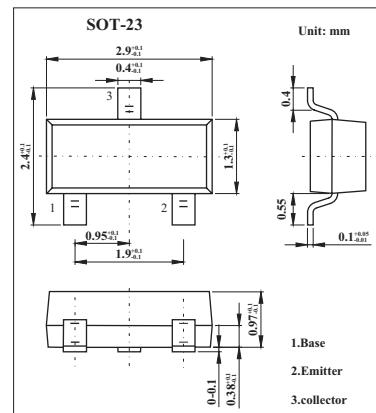


NPN General Purpose Transistor

2PD602A

■ Features

- High current (max. 500 mA)
- Low voltage (max. 50 V).



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	60	V
Collector-emitter voltage	V _{C EO}	50	V
Emitter-base voltage	V _{EBO}	5	V
Collector current (DC)	I _C	500	mA
Peak collector current	I _{CM}	1	A
Peak base current	I _{BM}	200	mA
Total power dissipation Tamb≤25°C; *	P _{tot}	250	mW
Storage temperature	T _{stg}	-65 to +150	°C
Junction temperature	T _j	150	°C
Operating ambient temperature	T _{amb}	-65 to +150	°C
Thermal resistance from junction to ambient *	R _{th j-a}	500	K/W

* Transistor mounted on an FR4 printed-circuit board.

2PD602A**■ Electrical Characteristics Ta = 25°C**

Parameter	Symbol	Testconditons	Min	Max	Unit
Collector cut-off current	I _{CBO}	I _E = 0; V _{CB} = 60 V		10	nA
		I _E = 0; V _{CB} = 60 V; T _j = 150°C		5	μA
Emitter cut-off current	I _{EBO}	I _C = 0; V _{EB} = 4 V		10	nA
DC current gain	h _{FE}	I _C = 150 mA; V _{CE} = 10 V; *	85	170	
			120	240	
			170	340	
DC current gain	h _{FE}	I _C = 500 mA; V _{CE} = 10 V; *			
Collector-emitter saturation voltage	V _{CESAT}	I _C = 300 mA; I _B = 30 mA; *		600	mV
Collector capacitance	C _c	I _E = i _e = 0; V _{CB} = 10 V; f = 1 MHz		15	pF
Transition frequency	f _T	I _C = 50 mA; V _{CE} = 10 V; f = 100 MHz *	140		MHz
			160		
			180		

* Pulse test: tp≤300 μs; δ≤0.02.

■ Marking

Type Number	2PD602AQ	2PD602AR	2PD602AS
h _{FE}	XQ	XR	XS