



FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

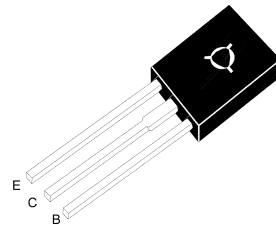
FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

ST 2SD882H

NPN Silicon Power Transistor

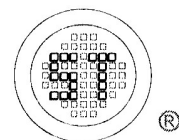
The transistor is subdivided into four groups, R, Q, P and E, according to its DC-DC current gain.



TO-18 Plastic Package

Absolute Maximum Ratings

	Symbol	Value	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	30	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current (D.C)	$I_C(DC)$	3	A
Collector Current (pulse)	$I_C(pulse)$	7	A
Total power dissipation($T_a=25^{\circ}C$)	P_{tot}	1	W
Total power dissipation($T_c=25^{\circ}C$)	P_{tot}	10	W
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature Range	T_s	-55 to +150	$^{\circ}C$



SEMTECH

Dated : 07/12/2002



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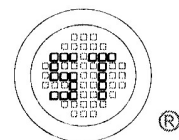
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Characteristics at $T_{amb}=25^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=2\text{V}$, $I_C=1\text{A}$					
Current Gain Group R Q P E	h_{FE}	60	-	120	-
	h_{FE}	100	-	200	-
	h_{FE}	160	-	320	-
	h_{FE}	200	-	400	-
	h_{FE}	30	150	-	-
at $V_{CE}=2\text{V}$, $I_C=20\text{mA}$					
Collector Cutoff Current at $V_{CB}=60\text{V}$	I_{CBO}	-	-	1.0	μA
Emitter Cutoff Current at $V_{EB}=3.0\text{V}$	I_{EBO}	-	-	1.0	μA
Output Capacitance $V_{CB}=10\text{V}$, $f=1.0\text{MHz}$	C_{ob}	-	45	-	pF
Base Emitter Saturation Voltage at $I_C=2.0\text{mA}$, $I_B=0.2\text{A}$	$V_{BE(sat)}$	-	1.0	2.0	V
Collector Emitter Saturation Voltage at $I_C=2.0\text{mA}$, $I_B=0.2\text{A}$	$V_{CE(sat)}$	-	0.3	0.5	V
Gain Bandwidth Product at $V_{CE}=5.0\text{V}$, $I_C=0.1\text{A}$	f_T	-	90	-	MHz



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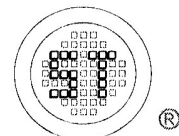
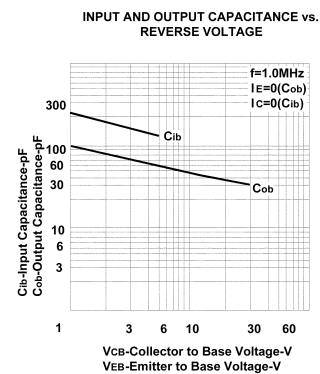
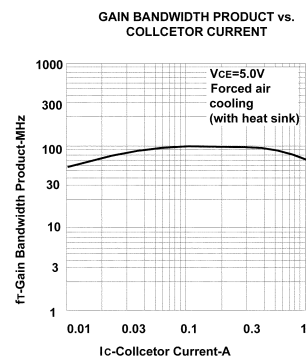
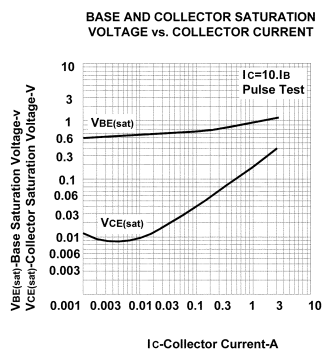
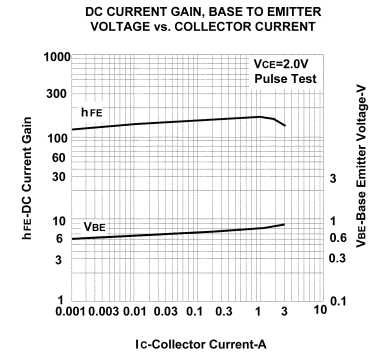
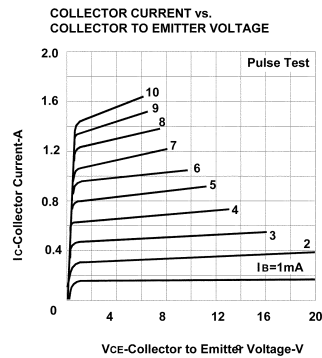
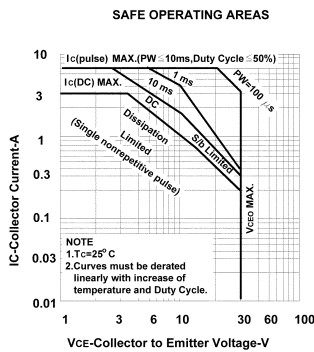
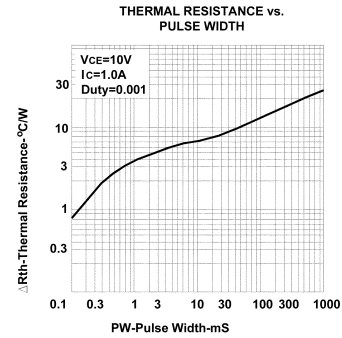
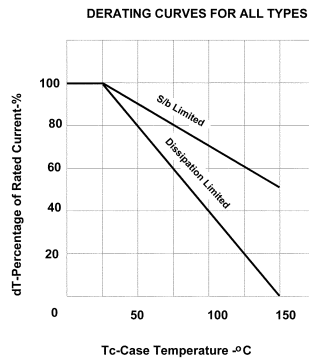
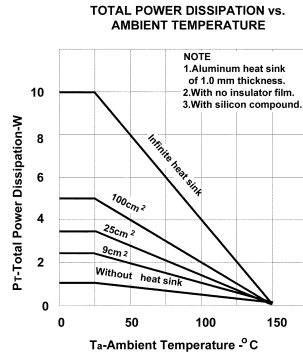
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TYPICAL CHARACTERISTICS (Ta=25°C)



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