

SANYO

No.2751A

2SD2048

NPN Triple Diffused Planar Silicon Transistor
Driver Applications

Applications

- . Motor drivers, printer hammer drivers, relay drivers, voltage regulator control

Features

- . Suitable for sets whose height is restricted
- . High DC current gain
- . Large current capacity and wide ASO
- . Package: TO-220MF

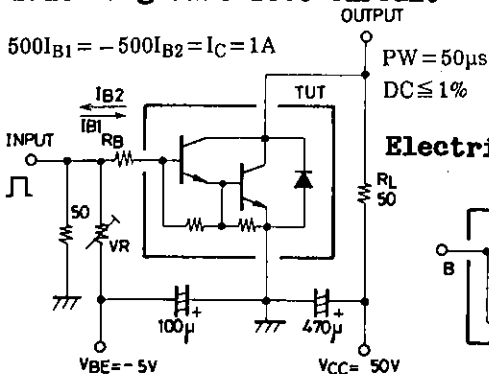
Absolute Maximum Ratings at Ta=25°C

			unit
Collector to Base Voltage	V _{CB0}	110	V
Collector to Emitter Voltage	V _{CE0}	100	V
Emitter to Base Voltage	V _{EBO}	6	V
Collector Current	I _C	3	A
Peak Collector Current	i _{cp}	5	A
Collector Dissipation	P _C	1.65	W
		30	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C

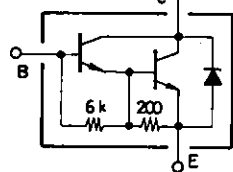
Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I _{CB0}	V _{CB} =80V, I _E =0			0.1	mA
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V, I _C =0			3	mA
DC Current Gain	h _{FE}	V _{CE} =3V, I _C =1.5A	1500	4000		
C-E Saturation Voltage	V _{CE(sat)}	I _C =1.5V, I _B =3mA		0.9	1.5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =1.5A, I _B =3mA			2.0	V
Gain-Bandwidth Product	f _T	V _{CE} =5V, I _C =1.5A		20		MHz
C-B Breakdown Voltage	V _{(BR)CBO}	I _C =5mA, I _E =0	110			V
C-E Breakdown Voltage	V _{(BR)CEO}	I _C =50mA, R _{BE} =∞	100			V
Turn-on Time	t _{on}	See Specified Test Circuit.		0.7		μs
Storage Time	t _{stg}	See Specified Test Circuit.		5.0		μs
Fall Time	t _r	See Specified Test Circuit.		1.2		μs

Switching Time Test Circuit

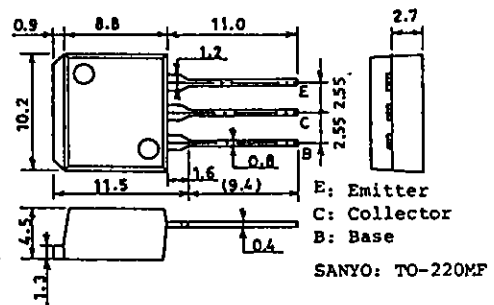


Electrical Connection



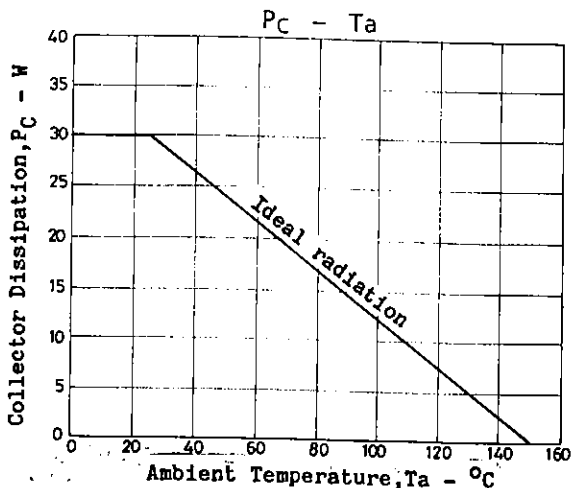
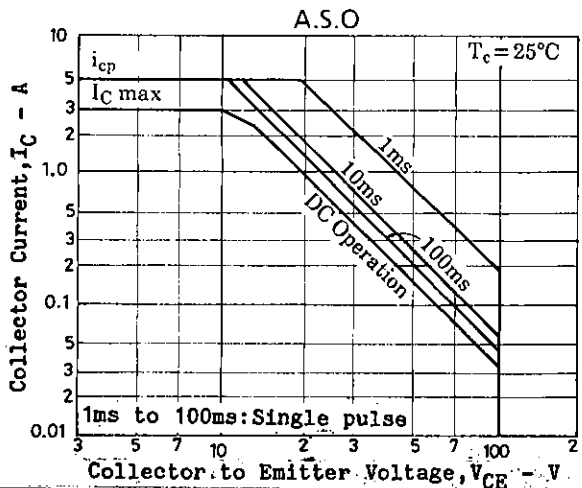
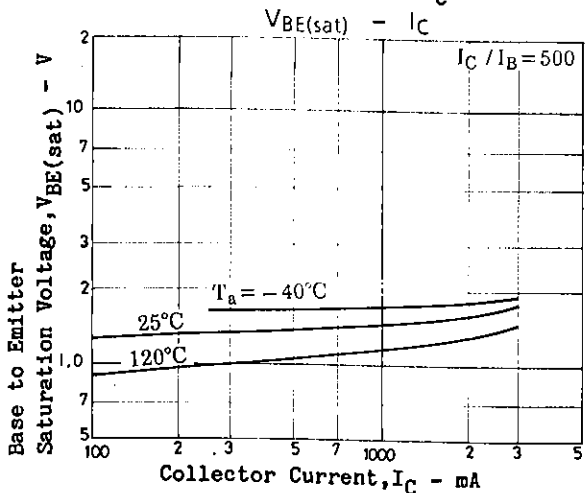
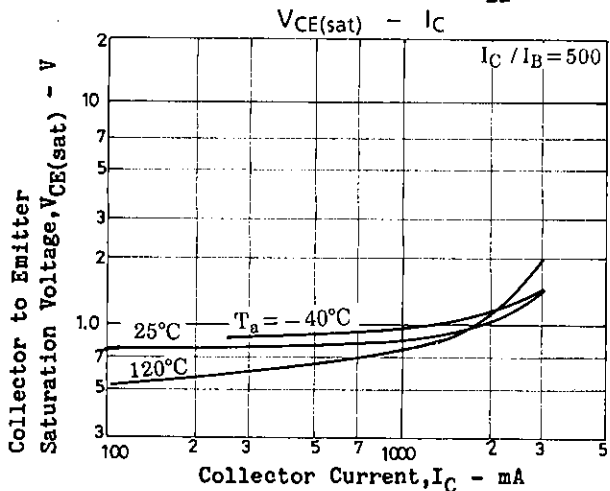
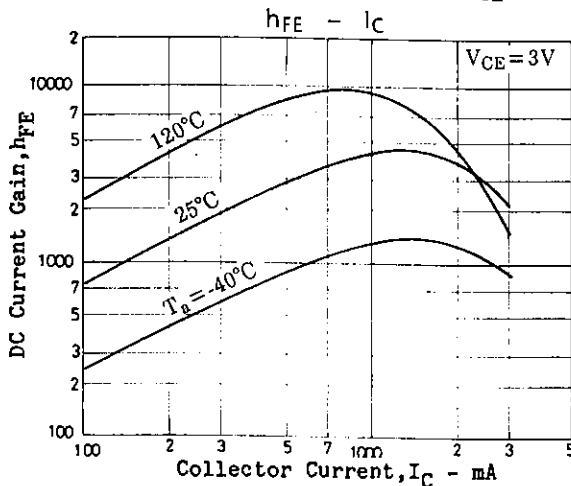
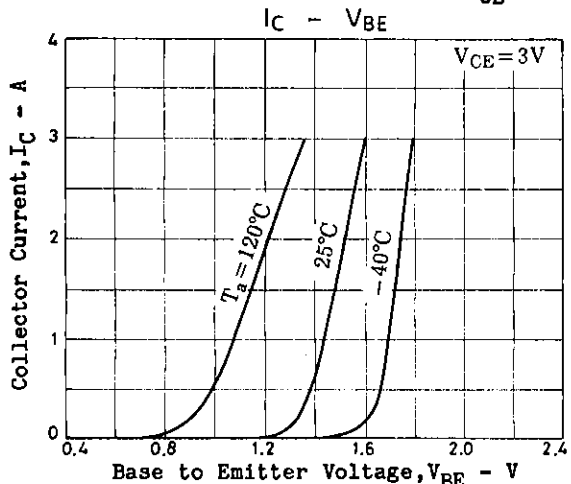
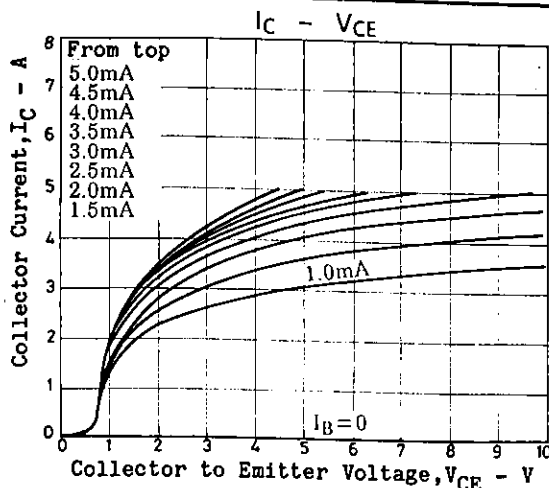
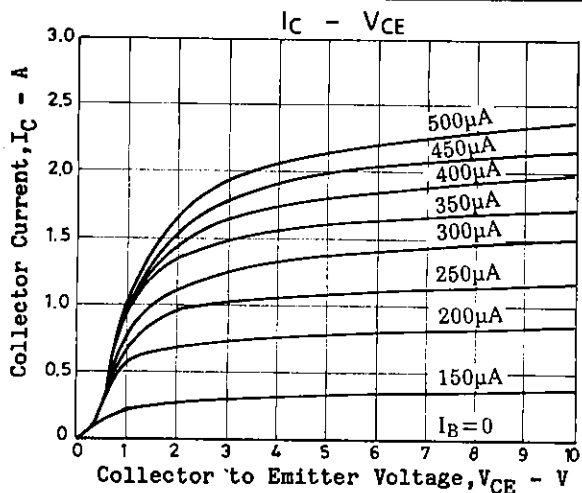
Unit (resistance: Ω, capacitance: F)

Package Dimensions 2049B (unit: mm)



SANYO: TO-220MF

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