Ordering number: EN1221C

SANYO

No.1221C

2SD1395

NPN Triple Diffused Planar Silicon Darlington Transistor.

Driver Applications

Applications

· Suitable for use in switching of L load (motor drivers, printer hammer drivers, relay drivers).

Features

· High DC current gain.
· Large current capacity.
· Wide ASO.
· On-chip Zener diode of 60±10V between collector and base.
· Uniformity in collector-to-base breakdown voltage due to adoption of accurate impurity diffusion process.
· High inductive load handling capability.

Absolute Maximum Ratings at Ta=25°C

				unit
Collector-to-Base Voltage	V_{CBO}		50※	V
Collector-to-Emitter Voltage	V_{CEO}		50※	V
Emitter-to-Base Voltage	V_{EBO}		6	V
Collector Current	I_C		5	A
Collector Current (Pulse)	I_{CP}		8	A
Base Current	I_B		0.5	A
Collector Dissipation	P_C	Tc=25°C	40	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

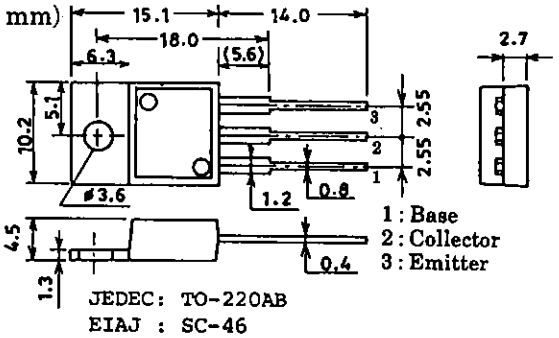
※ : With Zener diode (60±10V)

Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	V_{CB}=40V, I_E=0			100	μA
Emitter Cutoff Current	I_{EBO}	V_{EB}=5V, I_C=0			3	mA
DC Current Gain	h_{FE}	V_{CE}=3V, I_C=2.5A	1000	4000		
Gain-Bandwidth Product	f_T	V_{CE}=5V, I_C=2.5A		20		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	I_C=2.5A, I_B=5mA		0.9	1.5	V
B-E Saturation Voltage	$V_{BE(sat)}$	I_C=2.5A, I_B=5mA			2.0	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	I_C=5mA, I_E=0	50	60	70	V
C-E Breakdown Voltage	$V_{(BR)CEO}$	I_C=50mA, R_{BE}=∞	50	60	70	V
Inductive Load Handling Capability	Es/b	L=100mH, R_{BE}=100Ω	50			mJ
Rise Time	t_{on}	V_{CC}=20V, I_C=3.0A		0.6		μs
Storage Time	t_{stg}	I_{B1}=−I_{B2}=6mA		4.0		μs
Fall Time	t_f			1.5		μs

Package Dimensions 2010C

(unit : mm)



JEDEC: TO-220AB
EIAJ : SC-46

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“Searchdatasheets provides users with one of the Internet’s most complete sources for obsolete datasheets,” said Ariel Zriel, President, Market Maker Systems.
As the life-cycle of components is shortened by the constant demand for faster and better technology, electronics parts are being rendered obsolete at an unprecedented rate. Searchdatasheets gathers and stores the fact sheets, which explain how to use those components.

“Once a component manufacturer decides to eliminate a component datasheet from its web site,” said Zriel, “we take over and list it along with the millions of other datasheets that our users can quickly access.”

Users can perform standard searches for datasheets, or use the cross-reference search option if they want to find a compatible part from another manufacturer.
Searchdatasheets also informs its users when parts are going to become obsolete, providing them with timely product change notification (PCN), product discontinuation notices (PDN) and end of life (EOL) notification.

Searchdatasheets is the only database of its kind that has components engineers onstaff.

That means users can count on assistance from qualified personnel when performing cross-reference searches. Searchdatasheets engineers also regularly research and add and new datasheets to the system.

“We have full-time Engineers on-staff to research and add datasheets if the information is not currently on our site,” said Zriel. “We are providing a place for users to have their questions answered quickly. Our aim is to build a community for components engineers who need help in product design.”

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