

isc Silicon NPN Power Transistor

2SD1849

DESCRIPTION

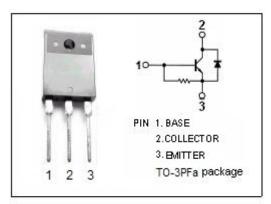
- · Collector-Base Breakdown Voltage-
 - : V_{CBO}= 1300V (Min.)
- · High Switching Speed
- Built-in Damper Diode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

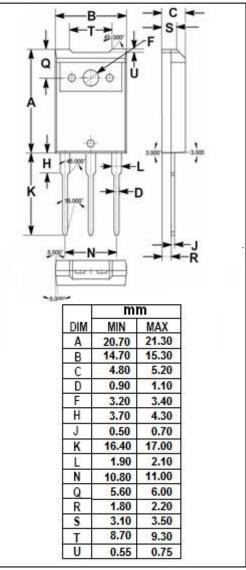
APPLICATIONS

· Designed for horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector- Base Voltage	1300	V	
V _{CES}	Collector-Emitter Voltage	1300	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous 7		Α	
Ісм	Collector Current-Peak	20	Α	
lв	Base Current- Continuous	3	Α	
P _C	Collector Power Dissipation @ T _a =25°C	3	W	
	Collector Power Dissipation @ T _c =25 °C	120		
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C	







isc Silicon NPN Power Transistor

2SD1849

ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

1c-25 C unless otherwise specified									
SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	I _E = 200mA; I _C = 0	7			V			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	Ic= 6A; I _B = 1.4A			8.0	V			
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 6A; I _B = 1.4A			1.5	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0 V _{CB} = 1300V; I _E = 0			10 1.0	μA mA			
h _{FE-1}	DC Current Gain	Ic= 1A; V _{CE} = 5V	5		25				
h _{FE-2}	DC Current Gain	I _C = 6A; V _{CE} = 10V	4.5						
f⊤	Current-Gain—Bandwidth Product	Ic= 1A; V _{CE} = 10V		2		MHz			
V _{ECF}	C-E Diode Forward Voltage	I _F = 7A			2.3	V			
Switching times, Resistive Load									
t _{stg}	Storage Time	I _C = 6A; I _{B1} = 1.4A; I _{B2} = -2.8A;		1.5		μ S			
t _f	Fall Time	V _{CC} = 200V		0.2		μS			

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.