

isc Silicon NPN Power Transistor

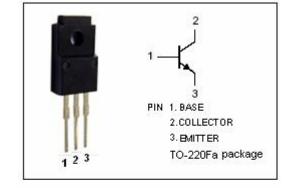
2SD1734

DESCRIPTION

- · High Voltage
- · High Switching Speed
- · Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

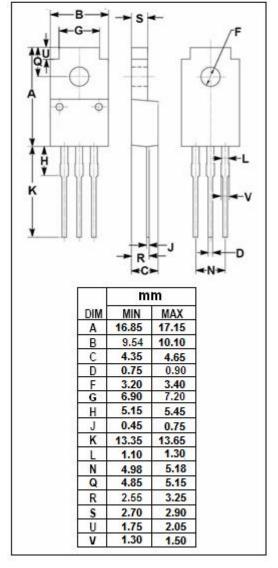
APPLICATIONS

• Designed for horizontal deflection output applications.



ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{CBO}	Collector-Base Voltage	1300	V	
Vces	Collector-Emitter Voltage	1300	V	
V _{CEO}	Collector-Emitter Voltage	700	V	
V _{EBO}	Emitter-Base Voltage	7	V	
Ic	Collector Current-Continuous	1.5	А	
I _{CP}	Collector Current-Peak	5	А	
l _Β	Base Current- Continuous	0.6	А	
Pc	Collector Power Dissipation @T _C =25℃	40	W	
T _j	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	-55-150	$^{\circ}$	



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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA; I _C = 0	7			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.4A			8.0	V			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.4A			1.5	V			
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	6		30				
Ісво	Collector Cutoff Current	V _{CB} = 750V; I _E = 0			10	μА			
		V _{CB} = 1300V; I _E = 0			1.0	mA			
f _T	Transition Frequency	I _C = 0.5A; V _{CE} = 10V		2		MHz			
Switching Times, Resistive Load									
ts	Storage Time	Ic= 1A; I _{B1} = 0.3A; I _{B2} = 0.6A,		1.0		μς			
t _f	Fall Time	V _{CC} = 200V		0.2		μ \$			

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