

isc Silicon NPN Power Transistors

2SD476

DESCRIPTION

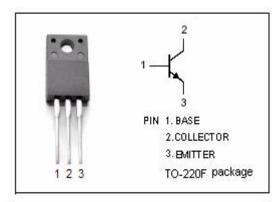
- · Low Collector Saturation Voltage
- : V_{CE(sat)}= 1.0V(Max)@ I_C=2A
- · Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 50V (Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

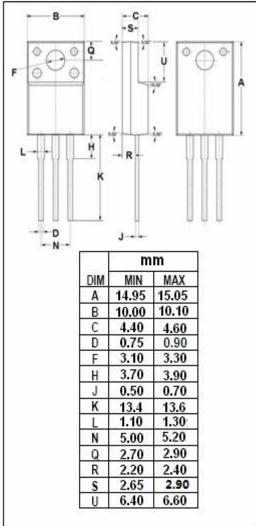
APPLICATIONS

Designed for power switching applications

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	70	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
lc	Collector Current-Continuous	4	А
Ісм	Collector Current-Peak	8	А
Pc	Collector Power Dissipation @ Tc=25℃	40	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 10mA ; R _{BE} = ∞	50			V			
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 10 μ A; I _E = 0	70			V			
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 10 μ A; I _C = 0	5			V			
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.0	V			
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 2A; I _B = 0.2A			1.2	V			
I _{CBO}	Collector Cutoff Current	V _{CB} = 50V; I _E = 0			1.0	μ А			
h _{FE -1}	DC current gain	I _C = 1A; V _{CE} = 4V	200		300				
h _{FE -2}	DC current gain	I _C =0.1A; V _{CE} = 4V	35						
f⊤	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 4V		7		MHz			
Switching times									
ton	Turn-on Time			0.3		μ S			
t _{off}	Turn-off Time	I _C = 0.5A ;I _{B1} = I _{B2} = 50mA; V _{CC} = 10.5V		3.0		μ S			
t _{stg}	Fall Time			2.5		μS			

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