



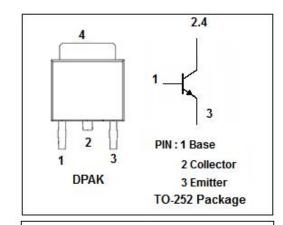
isc Silicon NPN Power Transistor

DESCRIPTION

- Wide Safe Operation Area
- · High Voltage Capability
- · Fast-switching speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

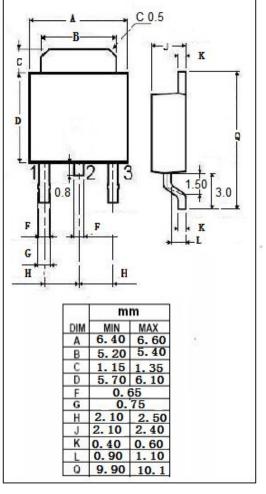
APPLICATIONS

- · Electronic Ballast
- Switch mode power supplies



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V_{CBO}	Collector-Base Voltage	1050	٧	
V _{CEO}	Collector-Emitter Voltage	400	V	
V _{EBO}	Emitter-Base Voltage	14	V	
lc	Collector Current-Continuous	3	А	
I _{CP}	Collector Current-Pulse	6	Α	
Pc	Collector Power Dissipation (Ta=25°C)	1.25	W	
TJ	Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$	





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FJD5553

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 200mA			0.5	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 200mA			1.2	٧
V _{(BR)CBO}	Collector-Base Breakdown Voltage	I _C = 500uA; I _B = 0	1050			٧
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = 5mA; I _B = 0	400			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = 500uA; I _C = 0	14			٧
h _{FE-1}	DC Current Gain	I _C = 10mA; V _{CE} = 5V	10			
h _{FE-2}	DC Current Gain	I _C = 0.4A; V _{CE} = 3V	30		60	

NOTICE:

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