

isc Silicon NPN Power Transistor

2SD1729

DESCRIPTION

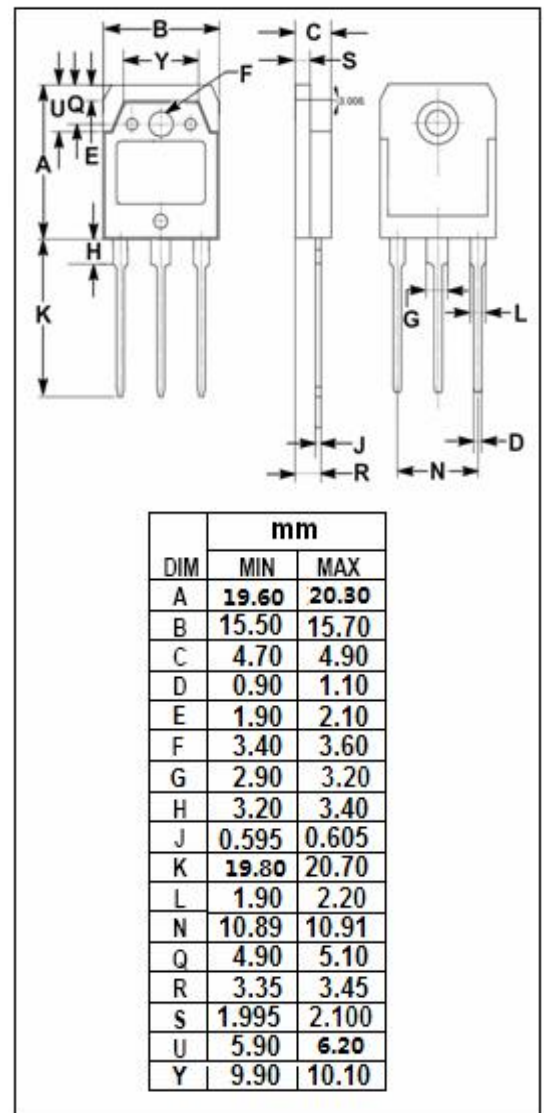
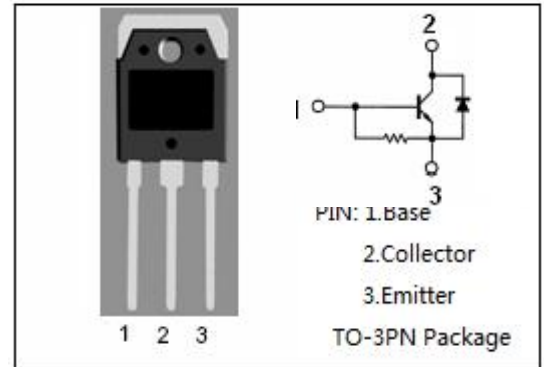
- High Voltage
- High Switching Speed
- Built-in damper diode
- Wide Area of Safe Operation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Designed for horizontal deflection output applications.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CES}	Collector-Emitter Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	700	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current-Continuous	3.5	A
I _{CP}	Collector Current-Peak	10	A
I _B	Base Current- Continuous	1.5	A
P _C	Collector Power Dissipation @T _C =25°C	60	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55-150	°C



isc Silicon NPN Power Transistor**2SD1729****ELECTRICAL CHARACTERISTICS****T_C=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	I _C = 3A; I _B = 0.8A			8.0	V
V _{BE(sat)}	Base-Emitter Saturation Voltage	I _C = 3A; I _B = 0.8A			1.5	V
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	5		25	
I _{CBO}	Collector Cutoff Current	V _{CB} = 750V; I _E = 0			10	μ A
		V _{CB} = 1500V; I _E = 0			1.0	mA
V _{ECF}	C-E Diode Forward Voltage	I _F = 3.5A			2.0	V
f _T	Transition Frequency	I _C = 0.5A; V _{CE} = 10V		2		MHz
Switching Times, Resistive Load						
t _s	Storage Time	I _C = 3A; I _{B1} = 0.8A; I _{B2} = 1.6A, V _{CC} = 200V		1.5		μ s
t _f	Fall Time			0.2		μ s

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