

isc Silicon NPN Power Transistor

2SD389

DESCRIPTION

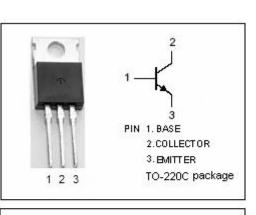
- Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 60V(Min)
- Wide Area of Safe Operation
- High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

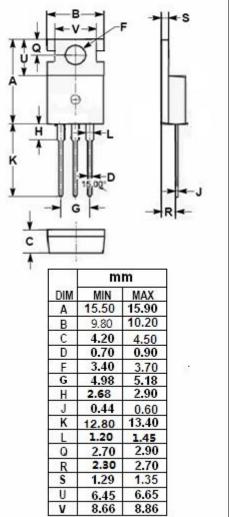
APPLICATIONS

• Designed for medium power amplifier applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{CBO}	Collector-Base Voltage	60	V		
V _{CEO}	Collector-Emitter Voltage	60	V		
V _{EBO}	Emitter-Base Voltage	8	V		
lc	Collector Current-Continuous 3.0		А		
Pc	Collector Power Dissipation @ $T_c=25^{\circ}C$ 25		W		
TJ	Junction Temperature	150	°C		
T _{stg}	Storage Temperature Range -55~150		°C		









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ELECTRICAL CHARACTERISTICS

$T_{c}\text{=}25^{\circ}\!\!\!\!\!\!C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA; I _B = 0	60			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 2A; I _B = 0.4A			1.0	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = 1A; V _{CE} = 3V			1.4	V
І _{СВО}	Collector Cutoff Current	V _{CB} = 20V; I _E = 0			30	μA
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 8V; I _C = 0			1.0	mA
h _{FE-1}	DC Current Gain	I _C = 0.1A; V _{CE} = 3V	40			
hfe-2	DC Current Gain	I _C = 1A; V _{CE} = 3V	30	60	160	

h_{FE-2} Classifications

Q	Р	0
30-60	50-100	80-160

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