

isc Silicon PNP Power Transistor
3CA753
DESCRIPTION

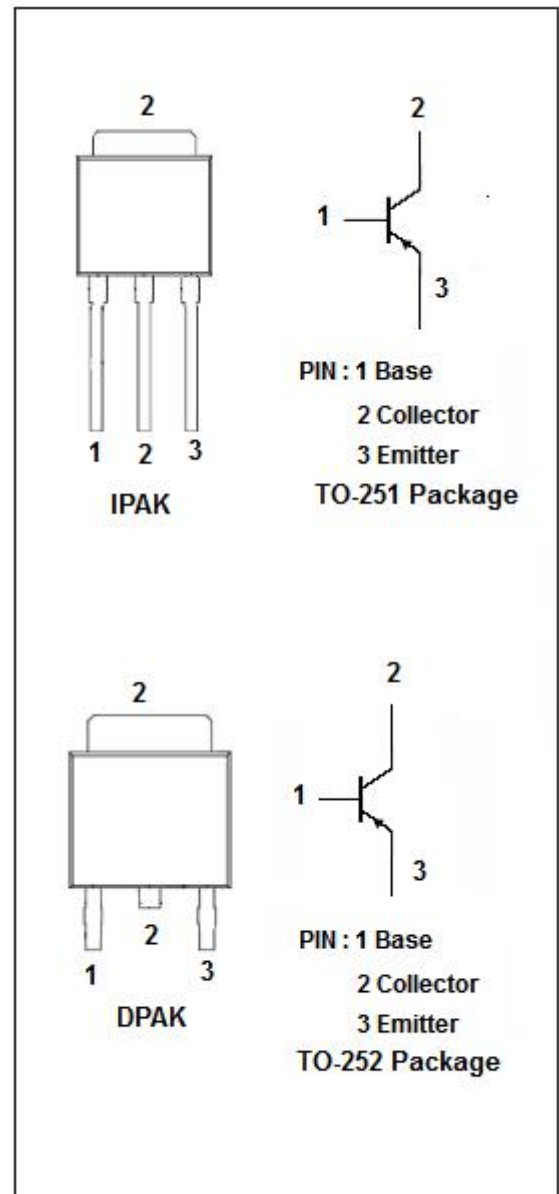
- Low $V_{CE(sat)}$
- Small and slim package
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Power dissipation

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-2	A
P_C	Collector Power Dissipation	1.2	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^\circ\text{C}$



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ELECTRICAL CHARACTERISTICS

 $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{CE(sat)-1}$	Collector-Emitter Saturation Voltage	$I_C = -2\text{A}; I_B = -200\text{mA}$			-0.8	V
$V_{CE(sat)-2}$	Collector-Emitter Saturation Voltage	$I_C = -1.5\text{A}; I_B = -30\text{mA}$			-2.0	V
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C = -100\mu\text{A}; I_B = 0$	-40			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}; I_B = 0$	-30			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	$I_E = -1\text{mA}; I_C = 0$	-5			V
I_{CBO}	Collector Cutoff Current	$V_{CB} = -40\text{V}; I_E = 0$			-0.1	μA
I_{EBO}	Emitter Cutoff Current	$V_{EB} = -5\text{V}; I_C = 0$			-0.1	μA
h_{FE}	DC Current Gain	$I_C = -0.5\text{A}; V_{CE} = -2\text{V}$	100		400	
C_{OB}	Output Capacitance	$I_E = 0; V_{CB} = -10\text{V}; f = 1.0\text{MHz}$		13		pF
f_T	Current-Gain—Bandwidth Product	$I_C = -500\text{mA}; V_{CE} = -5\text{V}$		120		MHz

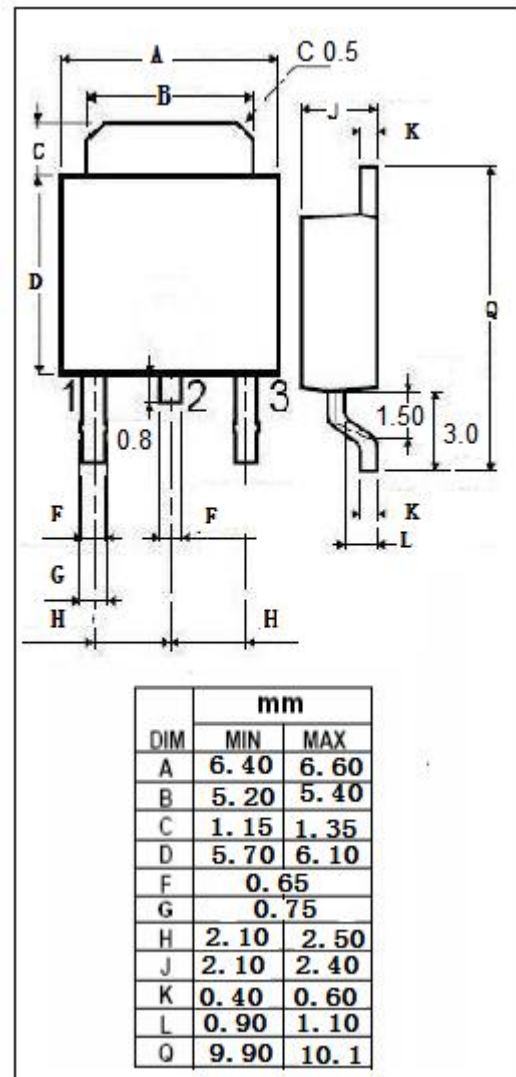
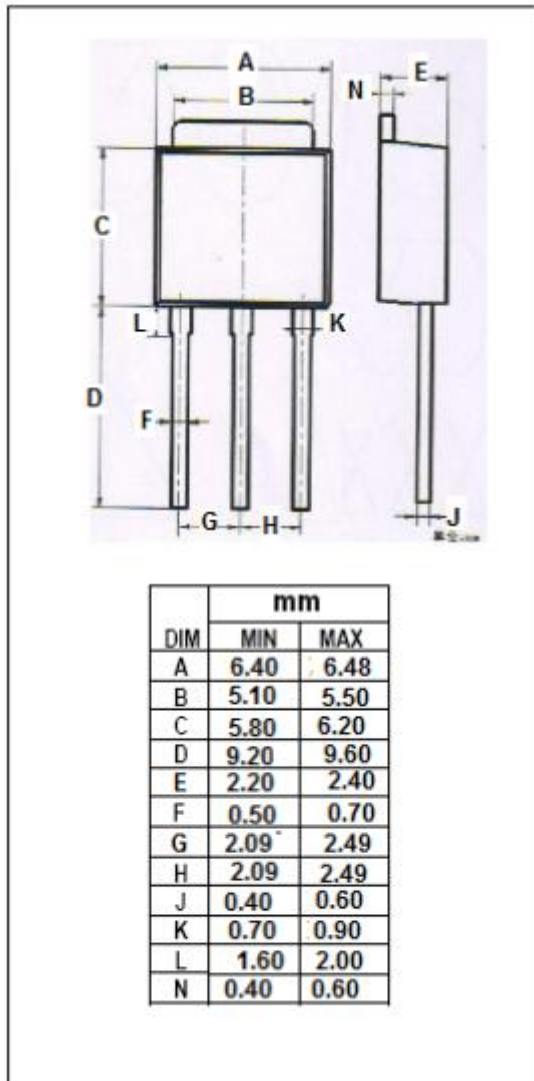
◆ h_{FE} Classifications

O	Y	G
100-200	160-320	200-400

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Outline Drawing



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