

KSC2258/2258A

High Voltage General Amplifier TV Video Output Amplifier

• High BV_{CEO}



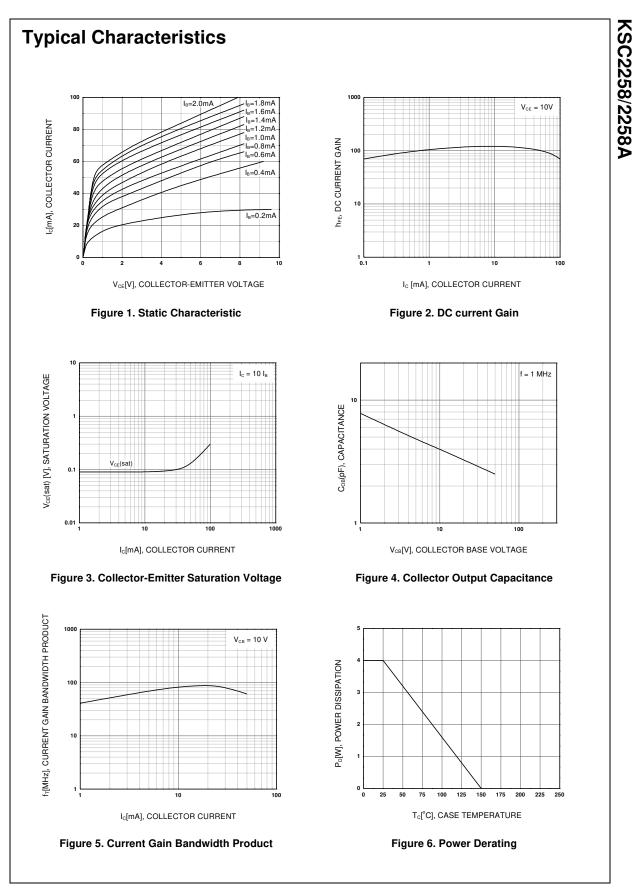
NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage			
	: KSC2258	250	V	
	: KSC2258A	300	V	
V _{CEO}	Collector-Emitter Voltage			
	: KSC2258	250	V	
	: KSC2258A	300	V	
V _{EBO}	Emitter-Base Voltage	6	V	
I _C	Collector Current (DC)	100	mA	
I _{CP}	Collector Current (Pulse)	150	mA	
P _C	Collector Dissipation (T _C =25°C)	4	W	
Тј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

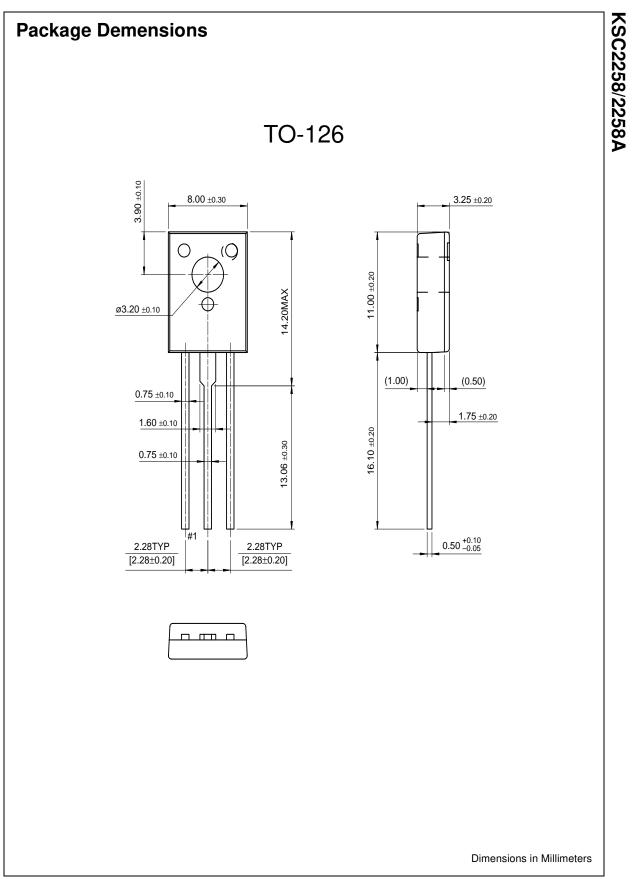
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = 0.1 {\rm mA}, \ I_{\rm C} = 0$	6			V
I _{CER}	Collector Cut-off Current	V_{CE} = 250V, R_{BE} = 100K Ω			100	μA
h _{FE1}	DC Current Gain	$V_{CE} = 20V, I_{C} = 40mA$	40			
h _{FE2}		$V_{CE} = 50V, I_{C} = 5mA$	30			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 50mA, I _B = 5mA			1.2	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -20V, I_{C} = 40mA$			1.2	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 10V, I_{C} = 10mA$		100		MHz
C _{ob}	Output Capacitance	V _{CB} = 50V, f = 1MHz		3	4.5	pF



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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSC2258AS	Full Production	\$0.165	<u>TO-126</u>	3	BULK
KSC2258ASTU	Full Production	\$0.165	<u>TO-126</u>	3	RAIL

* 1,000 piece Budgetary Pricing

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