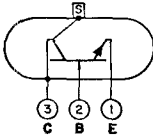


Noise Figure (with collector-to-emitter volts = 10, collector ma = 0.3, generator resistance = 510 ohms, circuit bandwidth = 1 cycle, and signal frequency = 1 kilocycle).....  
 \* Pulse duration = 300 μsec, duty factor = 0.018.

8 max db

**POWER TRANSISTOR**



Silicon n-p-n type used in a wide variety of intermediate-power switching and amplifier applications in industrial equipment requiring transistors having high voltage, current, and dissipation values. It is used in power

**2N1768**

switching, dc-to-dc converter, inverter, chopper, and relay actuating circuits; in voltage- and current-regulator circuits; and in dc and servo amplifier circuits. This type has an offset pedestal, stud-mount arrangement which provides positive heat-sink contact. Outline 19, Outlines Section. This type is electrically identical with type 2N1486 except for the following items:

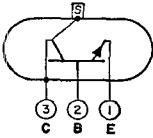
**MAXIMUM RATINGS**

COLLECTOR-TO-BASE VOLTAGE (with emitter open).....	60 max	volts
COLLECTOR-TO-EMITTER VOLTAGE:		
With emitter-to-base volts = 1.5.....	60 max	volts
With base open.....	40 max	volts
TRANSISTOR DISSIPATION:		
At case temperatures up to 25°C.....	40 max	watts
At case temperatures above 25°C.....	See curve page 68	
LEAD TEMPERATURE (for 10 seconds maximum).....	255 max	°C

**CHARACTERISTICS**

Collector-to-Emitter Breakdown Voltage (with emitter-to-base volts = 1.5 and collector ma = 0.25).....	60 min	volts
Collector-to-Emitter Sustaining Voltage (with collector ma = 100 and base current = 0).....	40 min	volts
Thermal Resistance:		
Junction-to-case.....	4.375 max	°C/watt
Junction-to-ambient.....	175 max	°C/watt

**POWER TRANSISTOR**



Silicon n-p-n type used in a wide variety of intermediate-power switching and amplifier applications in industrial equipment requiring transistors having high voltage, current, and dissipation values. It is used in power-

**2N1769**

switching, dc-to-dc converter, inverter, chopper, and relay actuating circuits; in voltage- and current-regulator circuits; and in dc and servo amplifier circuits. This type has an offset pedestal, stud-mount arrangement which provides positive heat-sink contact. Outline 19, Outlines Section. This type is identical with type 2N1486 except for the following items:

**MAXIMUM RATINGS**

TRANSISTOR DISSIPATION:		
At case temperatures up to 25°C.....	40 max	watts
At case temperatures above 25°C.....	See curve page 68	
LEAD TEMPERATURE (for 10 seconds maximum).....	255 max	°C

**CHARACTERISTICS**

Thermal Resistance:		
Junction-to-case.....	4.375 max	°C/watt
Junction-to-ambient.....	175 max	°C/watt