TRANSISTOR



Germanium p-n-p type used in 262.5-kilocycle or 455-kilocycle intermediate-frequency amplifier applications in AM automobile radio receivers. In an unneutralized circuit, this type is capable of provid-

2N1638

ing a useful power gain of 36.6 db at 262.5 kilocycles. JEDEC No. TO-1 package; outline 4, Outlines Section. This type is identical with type 2N1637 except for the following:

MAXIMUM RATINGS

Emitter-to-Base Voltage (with collector open)	-0.5 max	volt
CHARACTERISTICS		
Collector-Cutoff Current (with collector-to-base volts $= -12$ and emitter current $= 0$)	7	100
Emitter-Cutoff Current (with emitter-to-base volts = -0.5	-7 max	μæ
and collector current = 0)	-8 max	μa

In Common-Base Circuit

Small-Signal Forward Current-Transfer base volts = -12, collector ma = -1, = 1 kilocycle)	Ratio (with collector-to- and frequency
Small-Signal Forward-Current-Transfer (with collector-to-base volts = 12 and	Ratio Cutoff Frequency d collector ma $= -1$)

0.986

In Common-Emitter Circuit

DC Forward Current-Transfer Rati	io (with collector-to-emitter
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TYPICAL OPERATION IN SINGLE-STAGE 262.5-KC AMPLIFIER CIRCUIT

DC Collector-to-Emitter Voltage	-5	-11	volts
DC Collector Current	-1.6	_2	ma
Input Resistance Output Resistance	1800	1400	ohms
Marinum Bourse Coin	0.47	0.72	megohm
Maximum Power Gain Useful Power Gain:	58.6	61.5	db
In unneutralized circuit	35	36.6	db

