TELEDYNE MICROWAVE SOLUTIONS
Everywhereyoulook™

PMRF227

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION

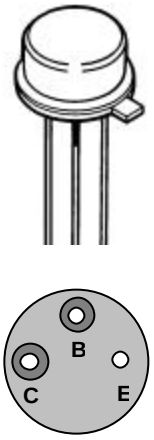
The **PMRF227** is designed for VHF class C FM power amplifier applications operating at 12.5 Volts. The grounded emitter configuration extends the useful frequency of operation to 225 MHz.

FEATURES

- Replacement for **Motorola MRF227**
- Grounded Emitter TO-39 Package
- All Gold Metalization for Enhanced Reliability

Package Style

TO-39GE



Emitter connected to case

Outline drawing: IN-565491

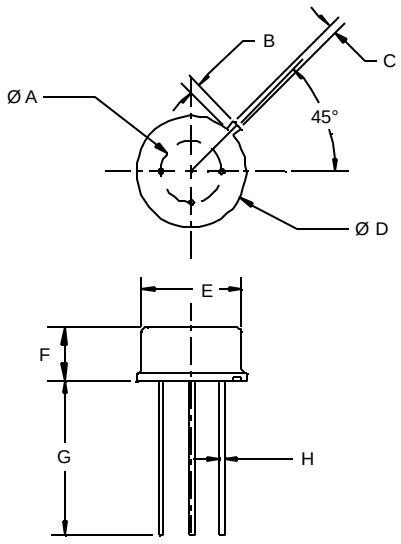
MAXIMUM RATINGS T_C = 25 °C

SYMBOL	RATING	UNITS
V_{CBO}	36	V
V_{CEO}	16	V
V_{EBO}	4.0	V
I_C	600	mA
P_D	5.0	W
θ_{JC}	35	°C/W
T_{STG}	-65 to +200	°C
T_J	+200	°C

ELECTRICAL CHARACTERISTICS T_C = 25°C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
BV_{CES}	I_C = 50 mA	36			V
BV_{CEO}	I_C = 50 mA	16			V
BV_{EBO}	I_E = 1 mA	4			V
I_{CBO}	V_{CB} = 15.0 V			1	mA
h_{FE}	V_{CE} = 5 V I_C = 50 mA	20		200	---
C_{OB}	V_{CB} = 12.5 V f = 1 MHz			15	pF
P_G η_C	V_{CE} = 12.5 P_{OUT} = 3.0 W F = 225 MHz	13.5	 60		dB %

PMRF227



DIM	MINIMUM inches / mm	MAXIMUM inches / mm
A	.200 / 5.080	
B	.029 / 0.740	.045 / 1.140
C	.028 / 0.720	.034 / 0.860
D	.355 / 9.020	.370 / 9.370
E	.315 / 8.010	.335 / 8.500
F	.165 / 4.200	.180 / 4.570
G	.500 / 12.700	.750 / 19.050
H	.016 / 0.410	.020 / 0.508

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