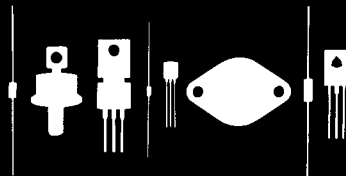


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145 Adams Avenue
Hauppauge, New York 11788



2N5555
N-CHANNEL FET
JEDEC TO-92 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N5555 type is an Silicon N Channel Junction FET designed for switching, RF amplifier and mixer applications where low capacitance is desired.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

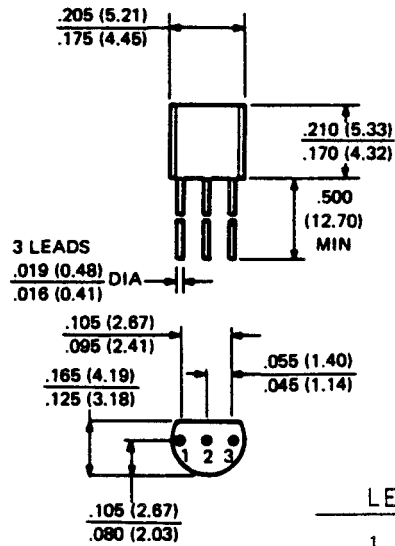
	SYMBOL		UNIT
Gate-Source Voltage	V_{GS}	25	V
Drain-Source Voltage	V_{DS}	25	V
Drain-Gate Voltage	V_{DG}	25	V
Gate Current	I_G	10	mA
Power Dissipation	P_D	310	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 TO +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
I_{GSS}	$V_{GS}=15\text{V}$		1.0	nA
I_{DSS}	$V_{DS}=15\text{V}$	15		mA
BV_{GSS}	$I_G=10\mu\text{A}$	25		V
$V_{GS}(f)$	$I_G(f)=1.0\text{mA}$		1.0	V
$I_D(\text{OFF})$	$V_{DS}=12\text{V}, V_{GS}=10\text{V}$		10	nA
$I_D(\text{OFF})$	$V_{DS}=12\text{V}, V_{GS}=10\text{V}, T_A=100^\circ\text{C}$		2.0	μA
$V_{DS}(\text{ON})$	$I_D=7.0\text{mA}$		1.5	V
$r_{DS}(\text{ON})$	$I_D=0.1\text{mA}$		150	Ω
$r_{ds}(\text{ON})$	$V_{GS}=0, I_D=0, f=1.0\text{kHz}$		150	Ω
C_{iss}	$V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$		5.0	pF
C_{rss}	$V_{GS}=10\text{V}, V_{DS}=0, f=1.0\text{MHz}$		1.2	pF
$t_d(\text{ON})$	$V_{DD}=10\text{V}, V_{GS}(\text{ON})=0, V_{GS}(\text{OFF})=10\text{V}, I_D(\text{ON})=7.0\text{mA}$		5.0	ns
t_r	$V_{DD}=10\text{V}, V_{GS}(\text{ON})=0, V_{GS}(\text{OFF})=10\text{V}, I_D(\text{ON})=7.0\text{mA}$		5.0	ns
$t_d(\text{OFF})$	$V_{DD}=10\text{V}, V_{GS}(\text{ON})=0, V_{GS}(\text{OFF})=10\text{V}, I_D(\text{ON})=7.0\text{mA}$		15	ns
t_f	$V_{DD}=10\text{V}, V_{GS}(\text{ON})=0, V_{GS}(\text{OFF})=10\text{V}, I_D(\text{ON})=7.0\text{mA}$		10	ns

SEE REVERSE FOR OUTLINE DRAWING

OUTLINE DRAWING



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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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