

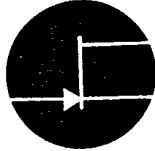
6367255 MOTOROLA SC (DIODES/OPTO)

34C 38047 D

T-31-25

FIELD-EFFECT TRANSISTORS DICE (continued)

DIE NO. UC310
LINE SOURCE — DFM145



This die provides performance equal to or better than that of the following device types:

- J308
- J309
- J310
- U308
- U309
- U310

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N-Channel junction FET designed for VHF/UHF amplifier, mixed and oscillator applications.

METALLIZATION —

Top Al

Back Au

BACKSIDE GOLD 3000Å

DIE THICKNESS 6 ± 2 mils

BONDING PAD SIZE:

Drain 2.0 x 2.8 mils

Source 2.0 x 2.7 mils

Gate Substrate

GLASSIVATION — The die active area, except for bond windows, is covered with Glassivation to protect from contaminants and accidental bonding.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$; Note 1)

Parameter	Test Conditions	Min	Max	Unit
I_{GSS}	$V_{GS} = 15 \text{ Vdc}$	—	150	pAdc
$V_{(BR)GSS}$	$I_G = 1.0 \mu\text{Adc}, V_{DS} = 0$	25	—	Vdc
$V_{GS(off)}$	$V_{DS} = 10 \text{ Vdc}, I_D = 1.0 \text{ nAdc}$	2.5	6.0	Vdc
I_{DSS}	$V_{DS} = 10 \text{ Vdc}, V_{GS} = 0$	24	60	mAdc
$V_{GS(I)}$	$I_G = 10 \text{ mAdc}, V_{DS} = 0$	—	1.0	Vdc

- NOTES: 1. Because of the limitations of probe testing, only dc parameters are tested. These parameters must be measured using pulse techniques: pulse width $\leq 300 \mu\text{s}$, duty cycle $\leq 2\%$.
2. Detailed device characteristics are available from your Motorola sales representative.