

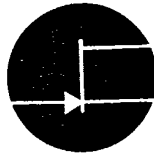
6367255 MOTOROLA SC (DIODES/OPTO)

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°C; Note 1)

Parameter	Test Conditions	Min	Max	Unit
I _{GSS}	V _{GS} = 15 Vdc	—	150	pAdc
V _{(BR)GSS}	I _G = 1.0 μAdc, V _{DS} = 0	25	—	Vdc
V _{GS (off)}	V _{DS} = 10 Vdc, I _D = 1.0 nAdc	2.5	6.0	Vdc
I _{DSS}	V _{DS} = 10 Vdc, V _{GS} = 0	24	60	mAdc
V _{GS (I)}	I _G = 10 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 ≤ 300 μs, duty cycle ≤ 2%.
 2. Detailed device characteristics are available from your Motorola sales representative.