

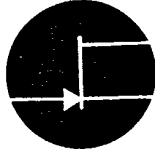
6367255 MOTOROLA SC (DIODES/OPTO)

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

**5**

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<sub>A</sub> = 25°C; Note 1)**

Parameter	Test Conditions	Min	Max	Unit
I <sub>gss</sub>	V <sub>GS</sub> = 15 Vdc	—	150	pAdc
V <sub>(BR)GSS</sub>	I <sub>G</sub> = 1.0 μAdc, V <sub>DS</sub> = 0	25	—	Vdc
V <sub>GS (off)</sub>	V <sub>DS</sub> = 10 Vdc, I <sub>D</sub> = 1.0 nAdc	2.5	6.0	Vdc
I <sub>DSS</sub>	V <sub>DS</sub> = 10 Vdc, V <sub>GS</sub> = 0	24	60	mAdc
V <sub>GS (I)</sub>	I <sub>G</sub> = 10 mAdc, V <sub>DS</sub> = 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.