

SILICON STEP RECOVERY DIODE

DESCRIPTION:

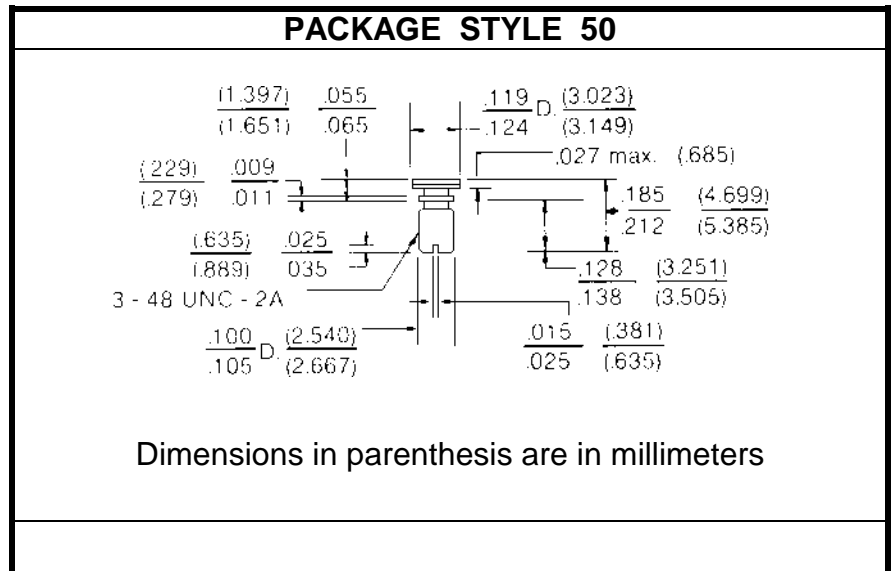
The **ASI 5082-0800** is a Silicon Step Recovery Diode Designed as a Frequency Multiplier with S-Band Output Frequencies.

FEATURES INCLUDE:

- Replacement for **HP 5082-0800**
- $P_{OUT} = 10\text{ W typ. @ } 4\text{ GHz (X 2)}$
- Hermetic Package

MAXIMUM RATINGS

I_F	100 mA
P_{DISS}	7.0 W @ $T_C = 25\text{ }^\circ\text{C}$
T_J	-65°C to +150 °C
T_{STG}	-65°C to +150 °C
θ_{JC}	15 °C/W


CHARACTERISTICS $T_A = 25\text{ }^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10\text{ }\mu\text{A}$	75			V
C_{j6}	$V_R = 6\text{ V}$ $f = 1.0\text{ MHz}$	3.5		5.0	pF
f_c		100			GHz
τ	$I_F = 10\text{ mA}$ $I_R = 6\text{ mA}$	200			μS
t_t	Charge Level = 1000 pC, measured at 20% & 80% points			400	pS