

SILICON STEP RECOVERY DIODE

DESCRIPTION:

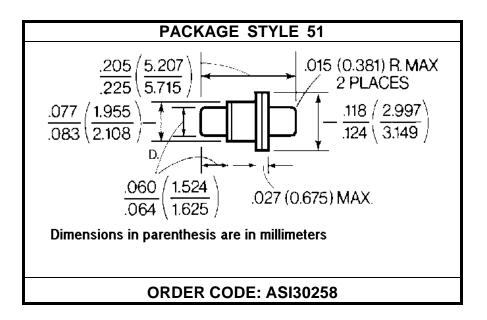
The **ASI 5082-0810** is a Silicon Step Recovery Diode Designed as a Frequency Multiplier with S-Band Output Frequencies.

FEATURES INCLUDE:

- Replacement for HP 5082-0810
- **P**_{OUT} = 4 W typ. @ 4 GHz (X 2)
- Hermetic Coaxial Package

MAXIMUM RATINGS

I _F	100 mA				
P _{DISS}	$7.0 \text{ W } @ \text{T}_{\text{C}} = 25 {}^{\text{O}}\text{C}$				
T_J	-65 ^O C to +150 ^O C				
T _{STG}	-65 ^O C to +150 ^O C				
q Jc	25 ^O C/W				



CHARACTERISTICS T_A = 25 °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu A$	60			٧
C _{j6}	V _R = 6 V f = 1.0 MHz	1.5		2.5	pF
f _c		140			GHz
t	$I_F = 10 \text{ mA}$ $I_R = 6 \text{ mA}$	80			mS
t _t	Charge Level = 1000 pC, measured at 20% & 80% points			260	pS