



## ZERO BIAS SCHOTTKY DIODE

### DESCRIPTION:

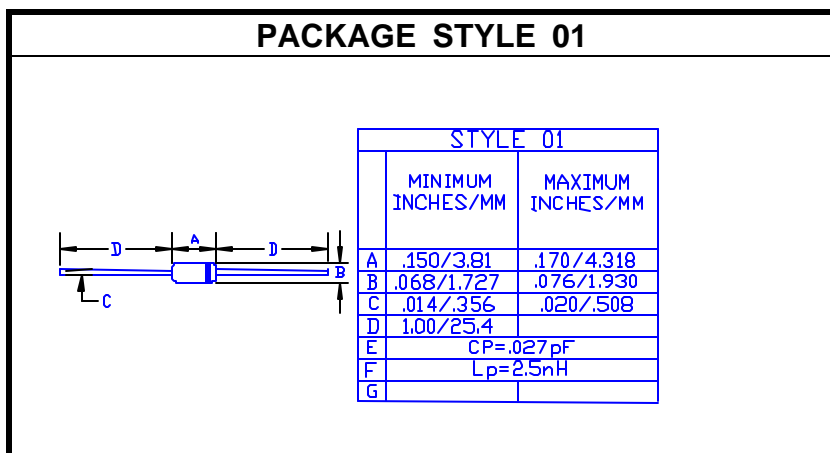
The **HSCH-3486** is a Silicon Zero Bias Schottky Barrier Diode Designed for High Sensitivity Detector and Low Starved Mixer Applications up to 10 GHz.

### FEATURES INCXLUDE:

- Replacement for **HSCH3486** and **MA4E928B-54**
- True Zero Bias Operation
- Hermetic Glass Package

### MAXIMUM RATINGS

$I_F$	10 mA
$V_R$	2.0 V
$P_{DISS}$	300 mW @ $T_C = 25^\circ\text{C}$
$T_J$	$-65^\circ\text{C}$ to $+150^\circ\text{C}$
$T_{STG}$	$-65^\circ\text{C}$ to $+150^\circ\text{C}$
$T_{SOLD}$	$+230^\circ\text{C}$ for 5 seconds



### CHARACTERISTICS $T_C = 25^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_F$	$I_F = 1.0\text{ mA}$			225	mV
$C_T$	$V_R = 0\text{ V}$ $f = 1.0\text{ MHz}$			0.5	pF
$T_{SS}$	$B_W = 2.0\text{ MHz}$ $f = 10\text{ GHz}$			-54	dBm
$g$	$P_{IN} = -40\text{ dBm}$ $f = 10\text{ GHz}$	7.5			mV/mW
$R_V$	$P_{IN} = -40\text{ dBm}$ $f = 10\text{ GHz}$	2		8	K ohms