



# BEAM LEAD SCHOTTKY DIODE BATCH MATCHED

## DESCRIPTION:

The **HSC5315** is a Medium Barrier Beam Lead Schottky Diode Designed for X-Band Mixer Applications that is Batch Matched for NF and ZIF.

## MAXIMUM RATINGS

$I_F$	25 mA
$V_R$	4.0 V
$P_{DISS}$	300 mW @ $T_A = 25^\circ\text{C}$
$T_J$	$-65^\circ\text{C}$ to $+175^\circ\text{C}$
$T_{STG}$	$-65^\circ\text{C}$ to $+200^\circ\text{C}$

PACKAGE STYLE BL1		
<b>ORDER CODE: ASI30264</b>		

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10 \mu\text{A}$	4.0			V
$V_F$	$I_F = 1.0 \text{ mA}$			500	mV
$R_D$	$I_F = 5.0 \text{ mA}$			18	W
$C_T$	$V_R = 0 \text{ V}$		$f = 1.0 \text{ MHz}$	0.15	pF
<b>NF</b> <b>DNF</b> <b>Z<sub>IF</sub></b> <b>DZ<sub>IF</sub></b>	$I_F = 30 \text{ MHz}$ $P_{LO} = 0 \text{ dBm}$ $N_{IF} = 1.5 \text{ dB}$		$f = 9.375 \text{ GHz}$ DC Load = $0 \Omega$	7.2 $\pm 0.3$ 400 25	<b>dB</b> <b>dB</b> <b>W</b> <b>W</b>