

BEAM LEAD SCHOTTKY DIODE BATCH MATCHED

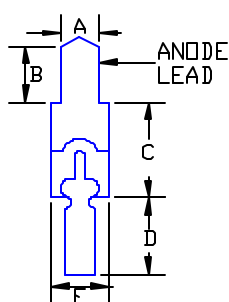
DESCRIPTION:

The **HSCH5315** 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 @ $T_A = 25\text{ }^{\circ}\text{C}$
T_J	$-65\text{ }^{\circ}\text{C}$ to $+175\text{ }^{\circ}\text{C}$
T_{STG}	$-65\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$

PACKAGE STYLE BL1



	MINIMUM INCHES/MM	MAXIMUM INCHES/MM
A	.006/0.152	.010/0.254
B	.010/0.254	.013/0.330
C	.0090/0.2286	.0120/0.3048
D	.010/0.254	.013/0.330
E	.0090/0.2286	.0120/0.3048
F	$C_p = .03\text{pF}$	$L_p = .1\text{nH}$

ORDER CODE: ASI30264

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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10\text{ }\mu\text{A}$	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
NF DNF Z_{IF} DZ _{IF}	$I_F = 30\text{ MHz}$ $f = 9.375\text{ GHz}$ $P_{LO} = 0\text{ dBm}$ $N_{IF} = 1.5\text{ dB}$ DC Load = $0\text{ }\Omega$	200		7.2 ± 0.3 400 25	dB dB W W