

SCHOTTKY BARRIER MIXER DIODE

DESCRIPTION:

The **MA40192** is a Silicon Schottky Barrier Diode Designed for Starved LO Mixer Applications up to 10 GHz.

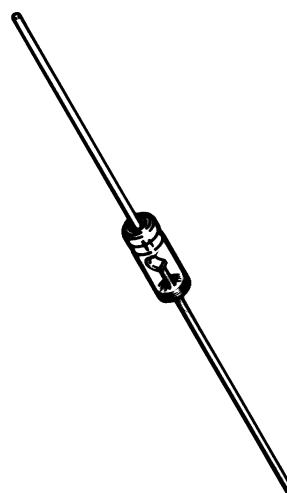
FEATURES:

- Replacement for MA/COM **MA40192**
- Available as matched pairs and matched quads
- 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°C to $+150^\circ\text{C}$
T_{STG}	-65°C to $+150^\circ\text{C}$
$T_{\text{soldering}}$	$+230^\circ\text{C}$ for 5 Seconds

PACKAGE STYLE 01



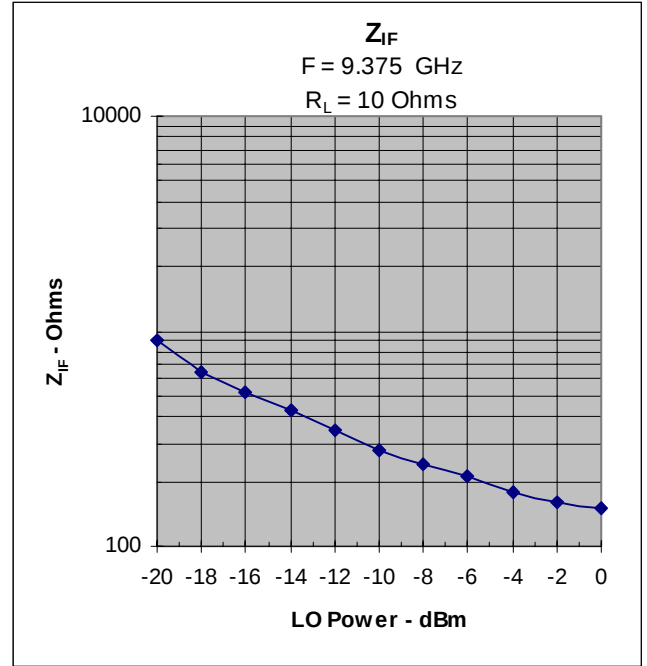
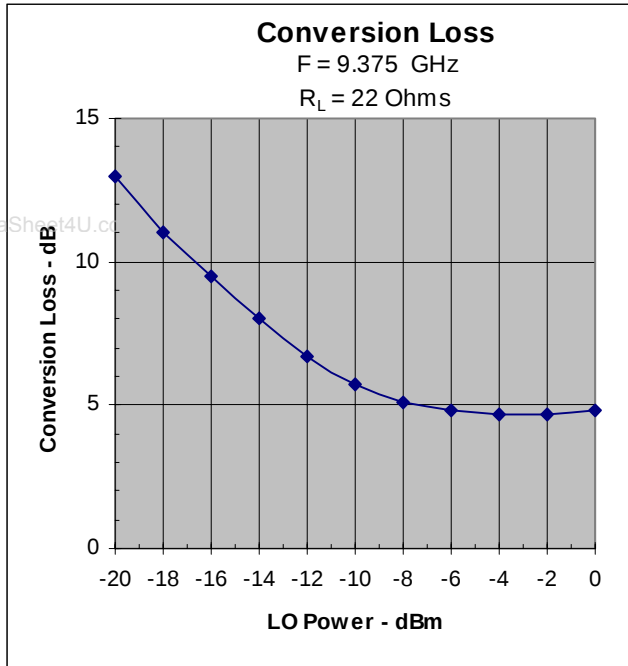
ASI ORDER CODE: ASI30285

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

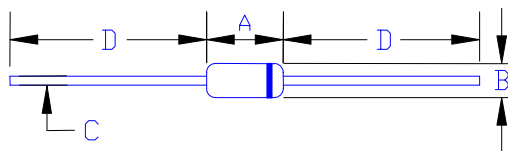
SYMBOL	TEST CONDITIONS			MINIMUM	TYPICAL	MAXIMUM	UNITS
V_F	$I_F = 1.0 \text{ mA}$				200	250	mV
V_{BR}	$I_R = 200 \mu\text{A}$			0.8			V
C_{J0}	$V_R = 0 \text{ V}$	$f = 1 \text{ MHz}$			0.2		pF
Con. Loss NF Z_{IF}	$F = 9.375 \text{ GHz}$	$P_{LO} = -10 \text{ dBm}$	$I_F = 10 \text{ KHz}$		5.5	6.0	dB
	$N_{IF} = 1.5 \text{ dB}$	$R_L = 22 \Omega$			9.0	12.0	dB
					250		Ohms

Note: Add **MP** suffix for matched pairs and **MQ** suffix for matched quads ($\Delta Z_{IF} = 25\Omega$ / $\Delta NF = 0.5 \text{ dB}$).

DYNAMIC CHARACTERISTICS



PACKAGE OUTLINE



: Clear

STYLE 01		
	MINIMUM INCHES/MM	MAXIMUM INCHES/MM
A	.150/3.81	.170/4.318
B	.068/1.727	.076/1.930
C	.014/.356	.020/.508
D	1.00/25.4	
E	CP=.027pF	
F	Lp=2.5nH	
G		