

# SILICON HYPERABRUPT VARACTOR DIODE

**DESCRIPTION:**

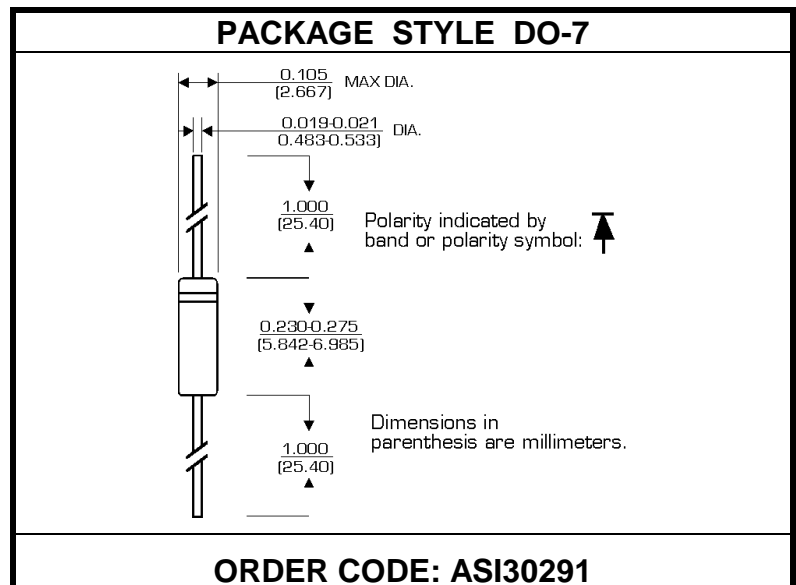
The **ASI DKV6520-12** is an Silicon Hyperabrupt Varactor Diode Designed for VHF/UHF Filters and Oscillators Requiring Octave Tuning.

**FEATURES INCLUDE:**

- $C_{T4} = 18$  pF Min.
- $C_{T4}/C_{T20} = 5.8$  Typical
- Hermetic Glass Package

**MAXIMUM RATINGS**

$I_F$	100 mA
$V_R$	22 V
$P_{DISS}$	250 mW @ $T_C = 25$ °C
$T_J$	-55 °C to +150 °C
$T_{STG}$	-65 °C to +200 °C
$T_{SOLD}$	+230 °C for 5 seconds


**CHARACTERISTICS**  $T_C = 25$  °C

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$V_{BR}$	$I_R = 10$ $\mu$ A	22			V
$I_R$	$V_R = 20$ V			100	nA
$C_T$	$V_R = 4.0$ V	18.0		22.0	pF
	$V_R = 8.0$ V	7.5		10.5	
	$V_R = 20$ V	3.1		3.9	
$C_{T4}/C_{T8}$	$V_R = 4$ & $8$ V	1.8		2.7	---
$C_{T4}/C_{T20}$	$V_R = 4$ & $20$ V	5.4		6.6	---
$Q$	$V_R = 4.5$ V	150			---

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