

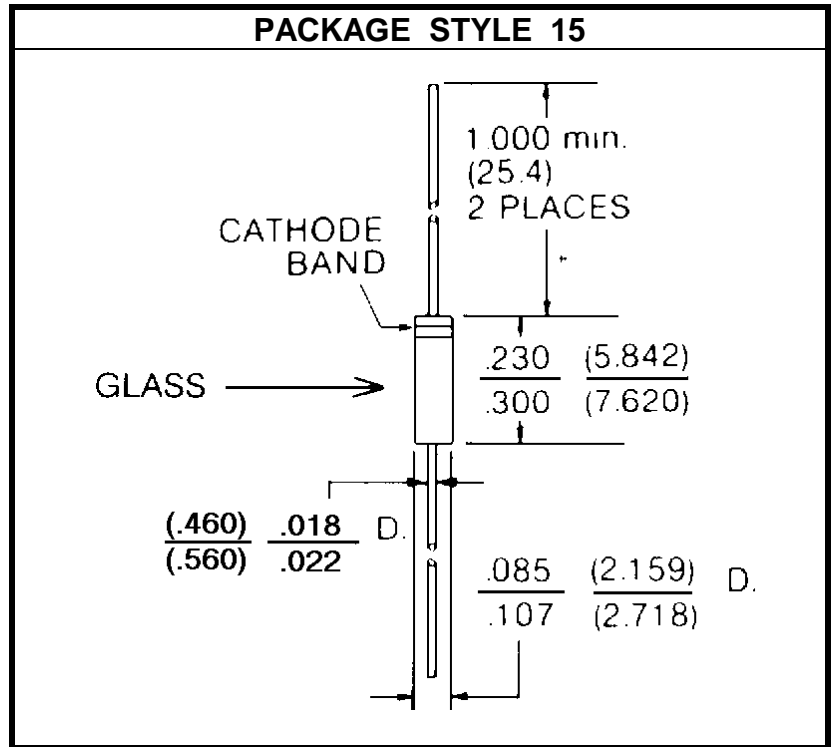
MEDIUM BARRIER SCHOTTKY DIODE

DESCRIPTION:

The **ASI 5082-2351** is a Silicon Small Signal Schottky Diode. Supplied in Matched pairs for General Purpose UHF/VHF Detection and Pulse Applications. Color Band Indicates Cathode.

MAXIMUM RATINGS

I_F	100 mA
V_R	30 V
P_{DISS}	100 mW @ $T_A = 25^\circ\text{C}$
T_J	-60°C to $+100^\circ\text{C}$
T_{STG}	-60°C to $+200^\circ\text{C}$
θ_{JC}	750 $^\circ\text{C/W}$


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

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
V_{BR}	$I_R = 10 \mu\text{A}$	30			V
I_R	$V_R = 15 \text{ V}$			500	nA
V_F	$I_F = 100 \text{ mA}$			0.5	V
C_J	$V_R = 0 \text{ V}$ $f = 1.0 \text{ MHz}$			0.9	pF
ΔNF				0.3	dB
ΔZ_{IF}				25	Ω
NF SWR	LO Power = 1.0 mW NF = 1.5 dB IF = 30 MHz Zero DC Load Resistance			7.5 1.5:1	dB ---
Z_{IF}	LO Power = 1.0 mW NF = 1.5 dB IF = 10 KHz Zero DC Load Resistance	150		250	Ω