

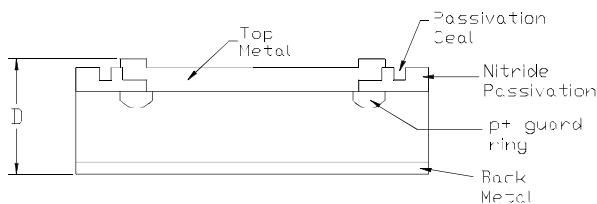
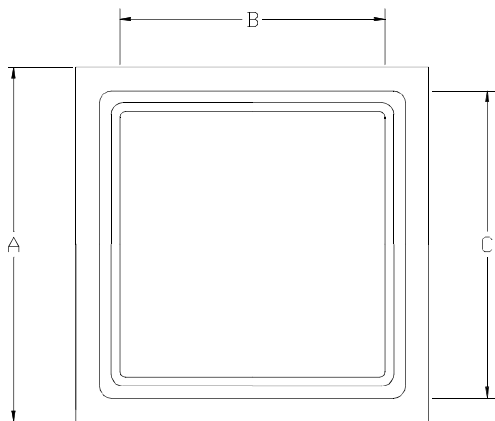
## SCHOTTKY DIE SPECIFICATION

**MB145**

Revision 4 5/22/2000

General Description Low Ir 45V 1A Single Anode

ELECTRICAL CHARACTERISTICS	SYM	Spec. Limit	Die Sort	UNIT
DC Blocking Voltage: $I_r = 0.05 \text{ mA}$	VRRM	45	47.5	Volt
Average Rectified Forward Current	IFAV	1		Amp
Maximum Instantaneous Forward Voltage				
@ 1 Amperes, $25^{\circ}$	VFMAX	0.52	0.51	Volt
@ 2 Amperes, $25^{\circ}$	VFMAX	0.7	0.69	Volt
Maximum Instantaneous Reverse Voltage				
VR = 45 Volt, $T_c = 25^{\circ}$	IRMAX	0.05	0.04	mA
Maximum Junction Capacitance at 0V, 1MHz	Cj MAX	80		pF
<b>MAXIMUM RATINGS</b>				
Nonrepetitive Peak Surge Current	IFSM	40		AMP
Operating Junction Temperature	TJ	-65 to +125		$^{\circ}\text{C}$
Storage Temperature	TSTG	-65 to +12		$^{\circ}\text{C}$



DIM	ITEM	um	mil
Ax	Die Size	1000	39.3
Ay		1000	39.3
Bx	Top Metal pad size	860	33.8
By		860	33.8
Cx	Passivation Seal	963	37.9
Cy		963	37.9
D	Thickness (Min)	228	9.0
	Thickness (Max)	254	10.0

**SCRIBE INSTRUCTION:**

Die performance is assured providing the die separation process leaves the Passivation Seal free of any visible damage.

**This die is designed to meet the following specifications:**

10BQ040, B140HB

**Please refer to FabTech SBR-Series Ordering Guide to create a complete part numbers for ordering. Complete part number will specify metalization and delivery options.**

Specifications apply to die only. Actual performance may degrade when assembled. FabTech does not guarantee device performance after assembly. Datasheet Information is subject to change without notice.