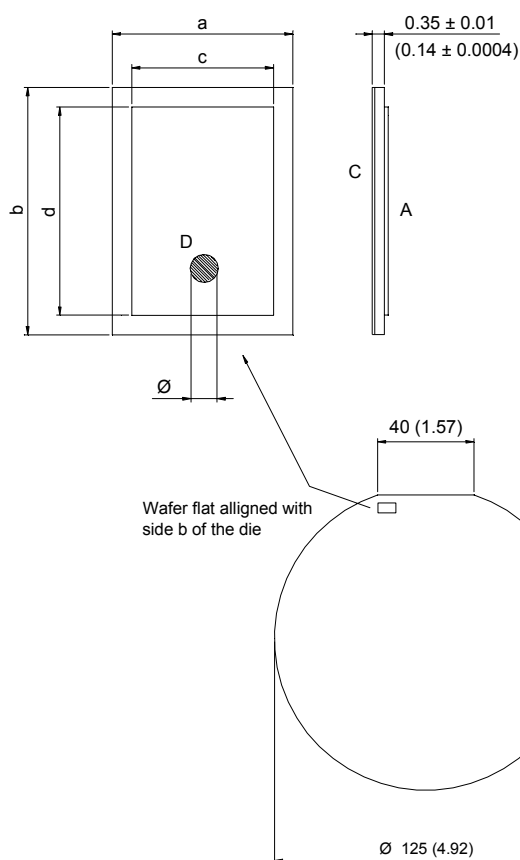


SC170.....5. Series

SCHOTTKY DIE 115 x 170 mils



NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES).
2. CONTROLLING DIMENSION: (INCH).
3. DIMENSIONS AND TOLERANCES:
 $a = 4.32 \pm 0, - 0.05$
 $(0.170 \pm 0, - 0.002)$
 $b = 2.92 \pm 0, - 0.05$
 $(0.115 \pm 0, - 0.002)$
 $c = 4.17 \pm 0, - 0.003$
 $(0.164 \pm 0, - 0.0001)$
 $d = 2.77 \pm 0, - 0.003$
 $(0.109 \pm 0, - 0.0001)$
 $\varnothing = 0.7 \pm 0.1$
 (0.03 ± 0.004)
4. LETTER DESIGNATION:
 A = Anode (Top Metal)
 C = Cathode (Back Metal)
 D = Reject Ink Dot (only on non-conforming dies)
5. SAWING:
 Recommended Blade
 SEMITEC S1025 QS00 Blade

NOT TO SCALE

NOTE: 10 mils die thickness is available on specific request only.
Contact factory for information.

Electrical Characteristics

Device #	T _J Max. (°C)	V _R (V)	Typ. I _R @ 25°C (μA)	Typ. I _R @ 125°C (mA)	Max. V _F @ I _F (V)	Package Style
SC170 R 015x5x	125	15	5000	600	0.41 @ 19A	TO-220
SC170 S 020x5x	150	20	n.a. contact factory			
SC170 S 030x5x	150	30	350	140	0.48 @ 20A	TO-220
SC170 S 045x5x	150	45	250	100	0.57 @ 20A	TO-220
SC170 S 060x5x	150	60	140	70	0.61 @ 20A	TO-220
SC170 H 045x5x	175	45	40	14	0.60 @ 18A	TO-220
SC170 H 100x5x	175	100	15	8	0.80 @ 20A	TO-220
SC170 H 150x5x	175	150	n.a. contact factory			

Mechanical Data

Device #		Metal Thickness Front Metal			Metal Thickness Back Metal		
SC170xxxx A 5x	Wire Bondable	–	Al 30 kÅ	–	Cr 1 kÅ	Ni 2 kÅ	Ag 3 kÅ
SC170xxxx S 5x	Solderable	Ti 2 kÅ	Ni 1 kÅ	Ag 35 kÅ	Cr 1 kÅ	Ni 2 kÅ	Ag 3 kÅ

Recommended Storage Environment: Store in original container, in dessicated nitrogen, with no contamination.

Shelf life for parts stored in above condition is 2 years.

If the storage is done in normal atmosphere shelf life is reduced to six months.

Packaging

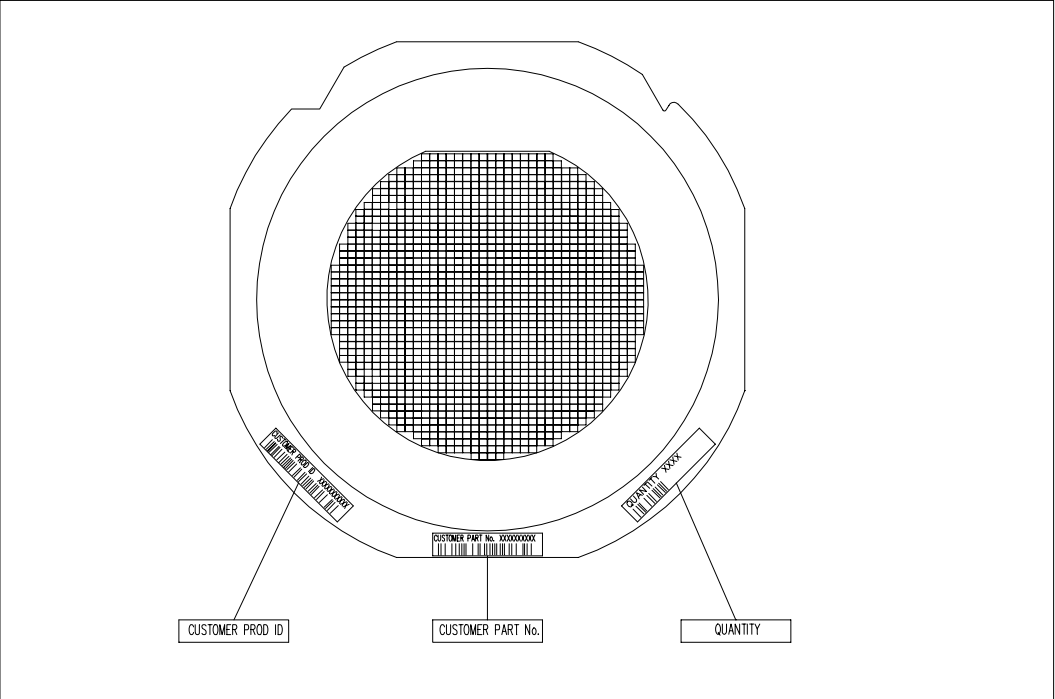
Device #	Description	Minimum Order Quantity Die in Sale Package
SC170xxxx B 5	Inked Probed Unsawn Wafer (Wafer in Box)	800
SC170xxxx R 5	Probed Die in Tape & Reel	n.a.
SC170xxxx P 5	Probed Die in Waffle Pack	800
SC170xxxx F 5	Inked Probed Sawn Wafer on Film	800

Ordering Information Table

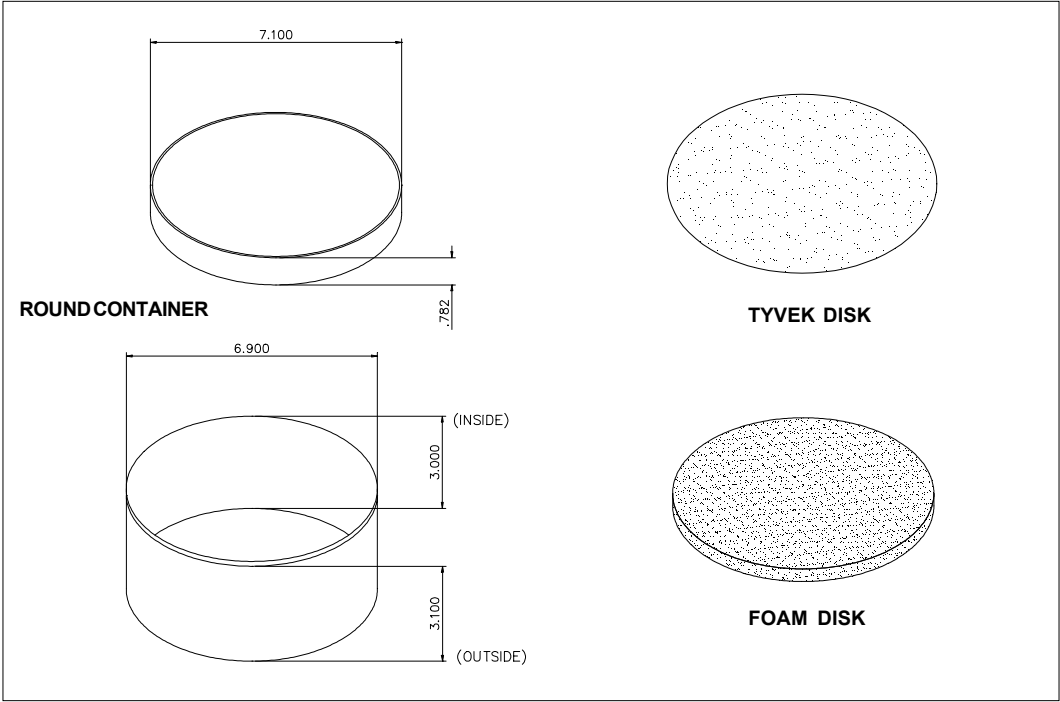
Device Code						
SC	170	H	100	S	5	B
1	2	3	4	5	6	7
1	- Schottky Die					
2	- Chip Dimension in Mils					
3	- Process (see Electrical Characteristics Table)					
4	- Voltage code: Code = V_{RRM}					
5	- Chip surface metallization (see Mechanical Data Table)					
6	- Wafer Diameter in inches					
7	- Packaging (see Packaging Table)					

H = 830 Process
R = OR'ing Process
S = Standard Process

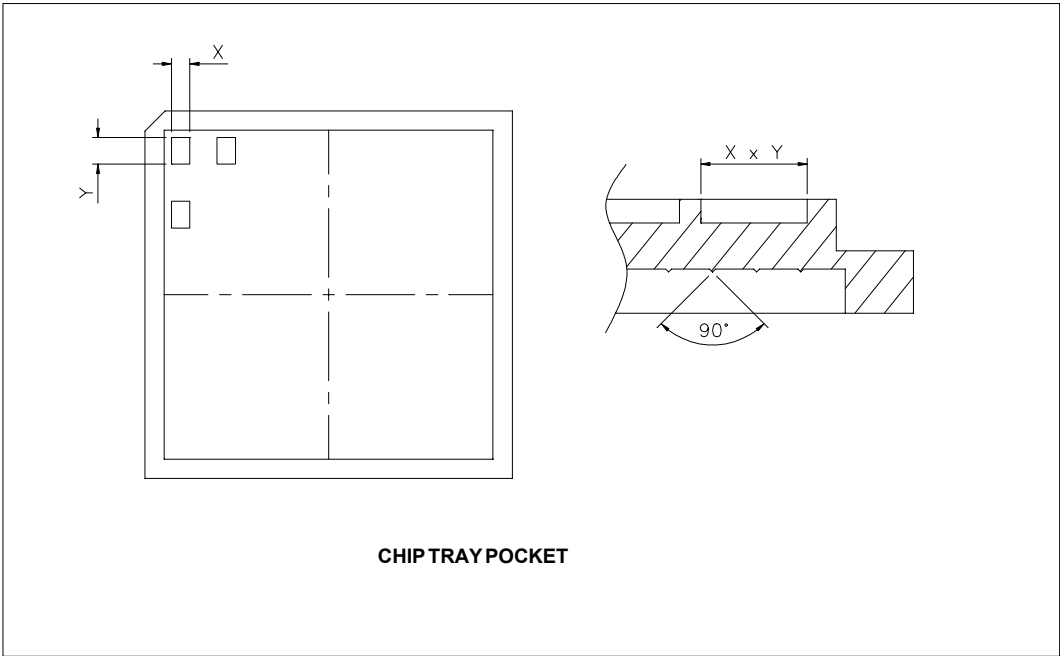
Wafer on Film



Wafer in Box



Die in Waffle Pack



Tape and Reel

