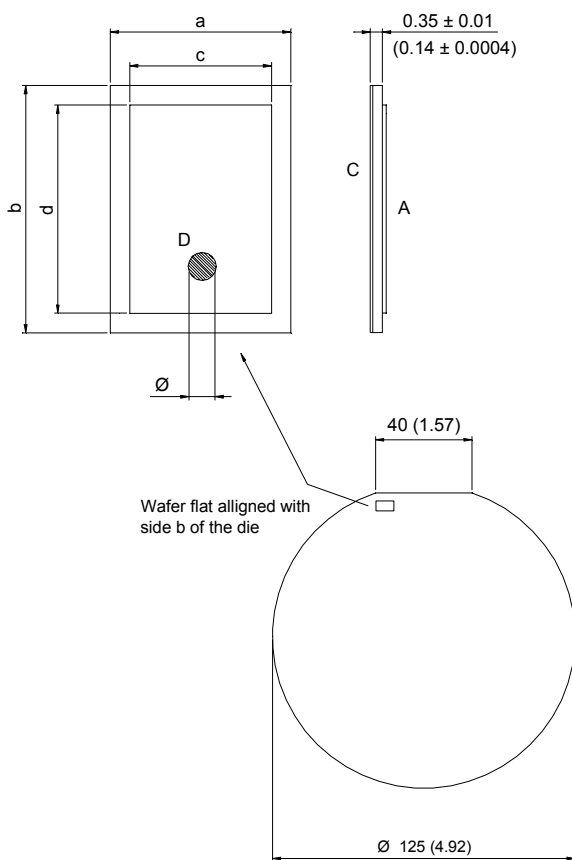


SCHOTTKY DIE 115 x 170 mils



NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (INCHES).
2. CONTROLLING DIMENSION: (INCH).
3. DIMENSIONS AND TOLERANCES:
 - $a = 4.32 + 0, - 0.05$
($0.170 + 0, - 0.002$)
 - $b = 2.92 + 0, - 0.05$
($0.115 + 0, - 0.002$)
 - $c = 4.17 + 0, - 0.003$
($0.164 + 0, - 0.0001$)
 - $d = 2.77 + 0, - 0.003$
($0.109 + 0, - 0.0001$)
 - $\emptyset = 0.7 \pm 0.1$
(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
SC170R015x5x	125	15	5000	600	0.41 @ 19A	TO-220
SC170S020x5x	150	20	n.a. contact factory			
SC170S030x5x	150	30	350	140	0.48 @ 20A	TO-220
SC170S045x5x	150	45	250	100	0.57 @ 20A	TO-220
SC170S060x5x	150	60	140	70	0.61 @ 20A	TO-220
SC170H045x5x	175	45	40	14	0.60 @ 18A	TO-220
SC170H100x5x	175	100	15	8	0.80 @ 20A	TO-220
SC170H150x5x	175	150	n.a. contact factory			

Mechanical Data

Device #		Metal Thickness Front Metal			Metal Thickness Back Metal		
SC170xxxxA5x	Wire Bondable	–	Al 30 kÅ	–	Cr 1 kÅ	Ni 2 kÅ	Ag 3 kÅ
SC170xxxxS5x	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

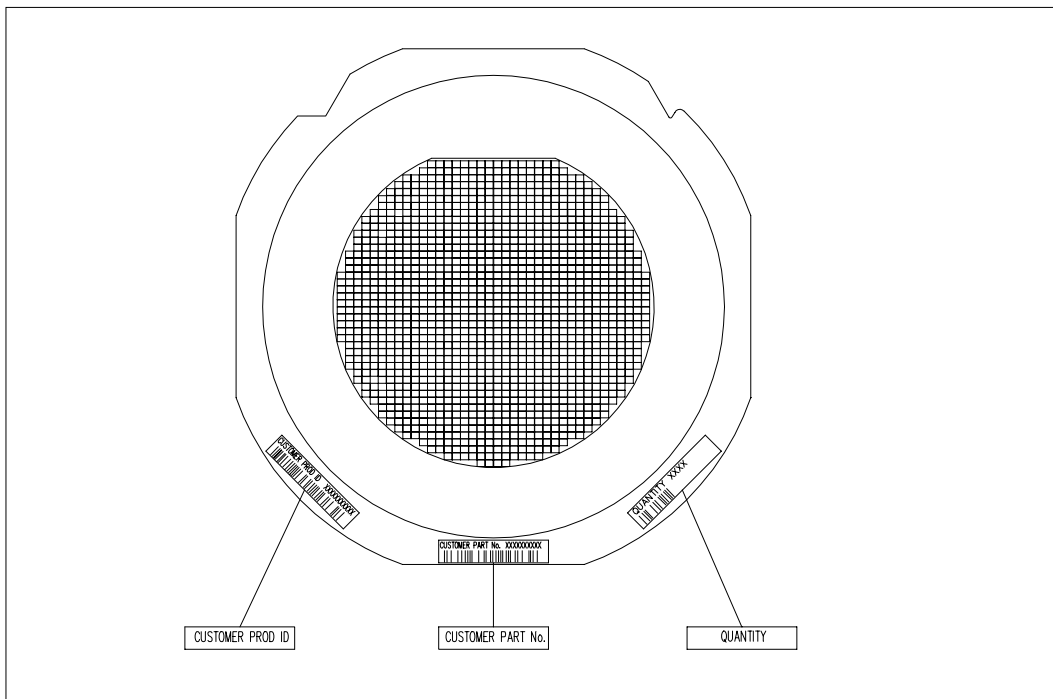
Device #	Description	Minimum Order Quantity Die in Sale Package
SC170xxxx5B	Inked Probed Unsawn Wafer (Wafer in Box)	800
SC170xxxx5R	Probed Die in Tape & Reel	n.a.
SC170xxxx5P	Probed Die in Waffle Pack	800
SC170xxxx5F	Inked Probed Sawn Wafer on Film	800

Ordering Information Table

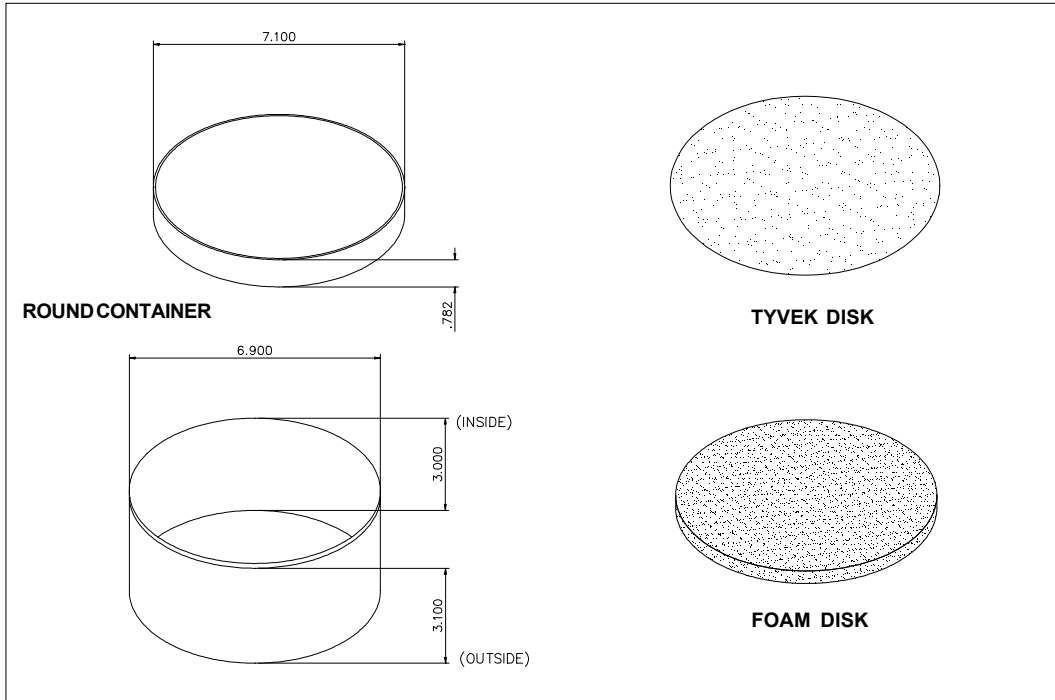
Device Code						
SC	170	H	100	S	5	B
①	②	③	④	⑤	⑥	⑦

<ul style="list-style-type: none"> 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
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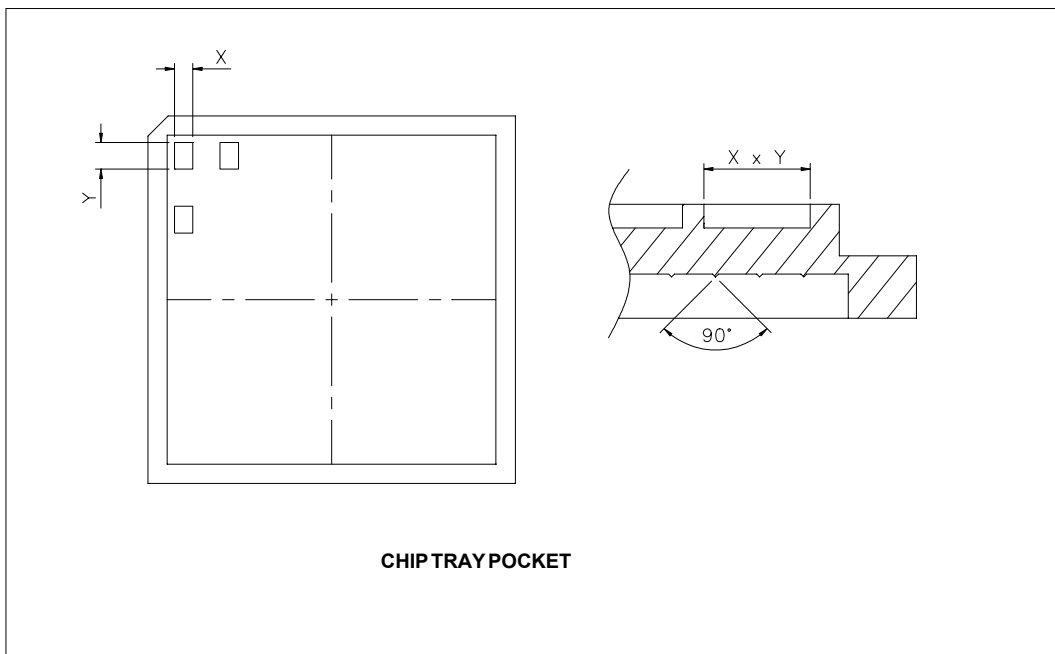
Wafer on Film



Wafer in Box



Die in Waffle Pack



Tape and Reel

