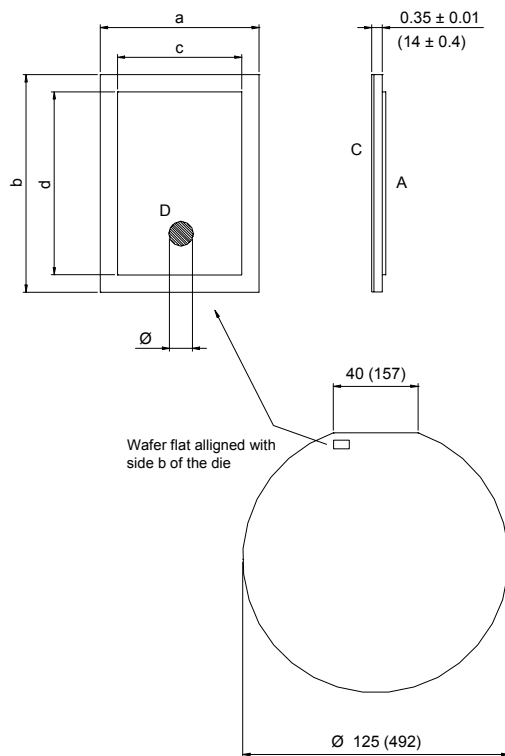


International
IOR Rectifier

SC180.....5. Series

SCHOTTKY DIE 150 x 180 mils



NOTES:

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS (MILS).

2. CONTROLLING DIMENSION: (MILS).

3. DIMENSIONS AND TOLERANCES:

$a = 4.57 \pm 0.01$
(180 $\pm$ 0.4)

$b = 3.81 \pm 0.01$
(150 $\pm$ 0.4)

$c = 4.42 \pm 0.01$
(174 $\pm$ 0.4)

$d = 3.66 \pm 0.01$
(144 $\pm$ 0.4)

$\varnothing = 1 \pm 0.15$
(40 $\pm$ 6)

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

Sawing Street

0.05 ± 0.005

(2 $\pm$ 0.2)

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
SC180R015x5x	125	15	n.a. contact factory			
SC180S020x5x	150	20	n.a. contact factory			
SC180S030x5x	150	30	n.a. contact factory			
SC180S045x5x	150	45	300	145	0.49 @ 20A	TO-247
SC180S060x5x	150	60	250	130	0.53 @ 20A	TO-247
SC180H045x5x	175	45	40	35	0.64 @ 30A	DO-4
SC180H100x5x	175	100	20	13	0.77 @ 20A	TO-247
SC180H150x5x	175	150	n.a. contact factory			

Mechanical Data

Device #		Metal Thickness Front Metal			Metal Thickness Back Metal		
SC180xxxxA5x	Wire Bondable	–	Al 30 kÅ	–	Cr 1 kÅ	Ni 2 kÅ	Ag 3 kÅ
SC180xxxxS5x	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.

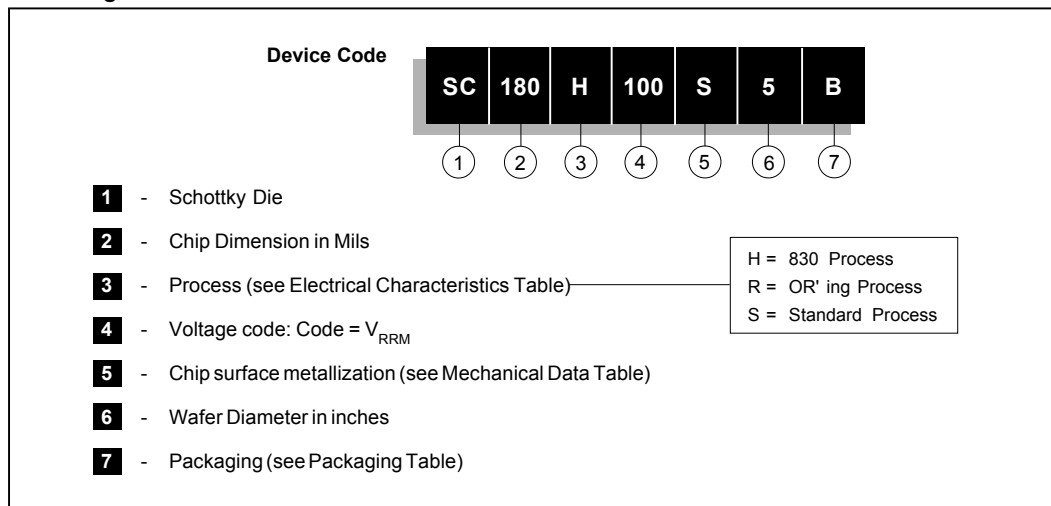
Shelf life for parts stored in above condition is 2 years.

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

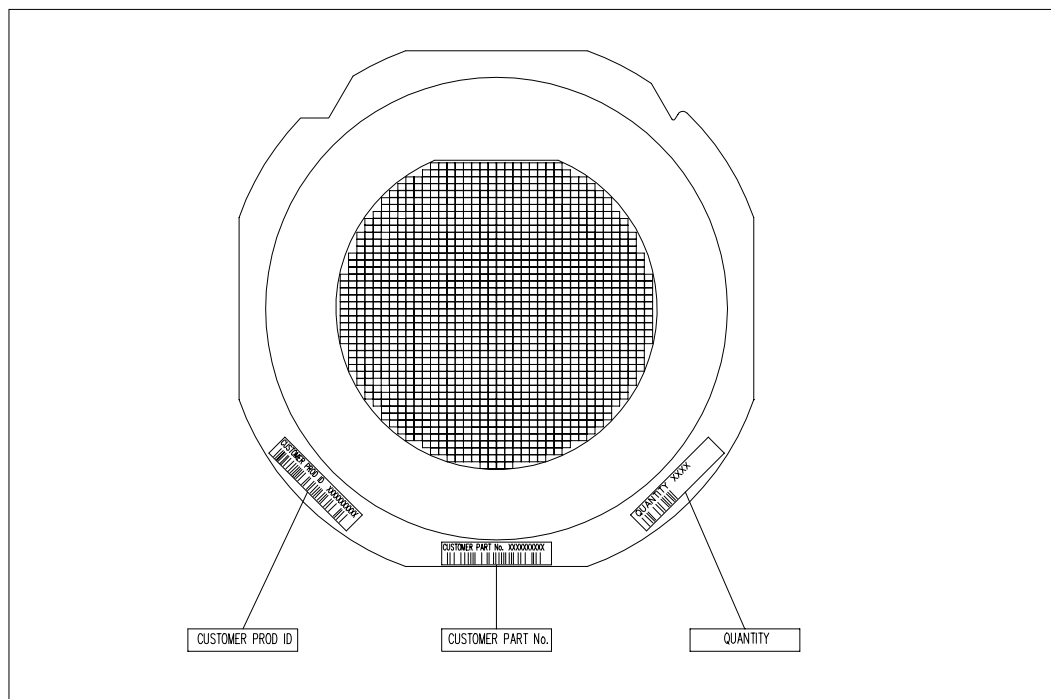
Packaging

Device #	Description	Minimum Order Quantity Die in Sale Package
SC180xxxx5B	Inked Probed Unsawn Wafer (Wafer in Box)	560
SC180xxxx5R	Probed Die in Tape & Reel	n.a.
SC180xxxx5P	Probed Die in Waffle Pack	560
SC180xxxx5F	Inked Probed Sawn Wafer on Film	560

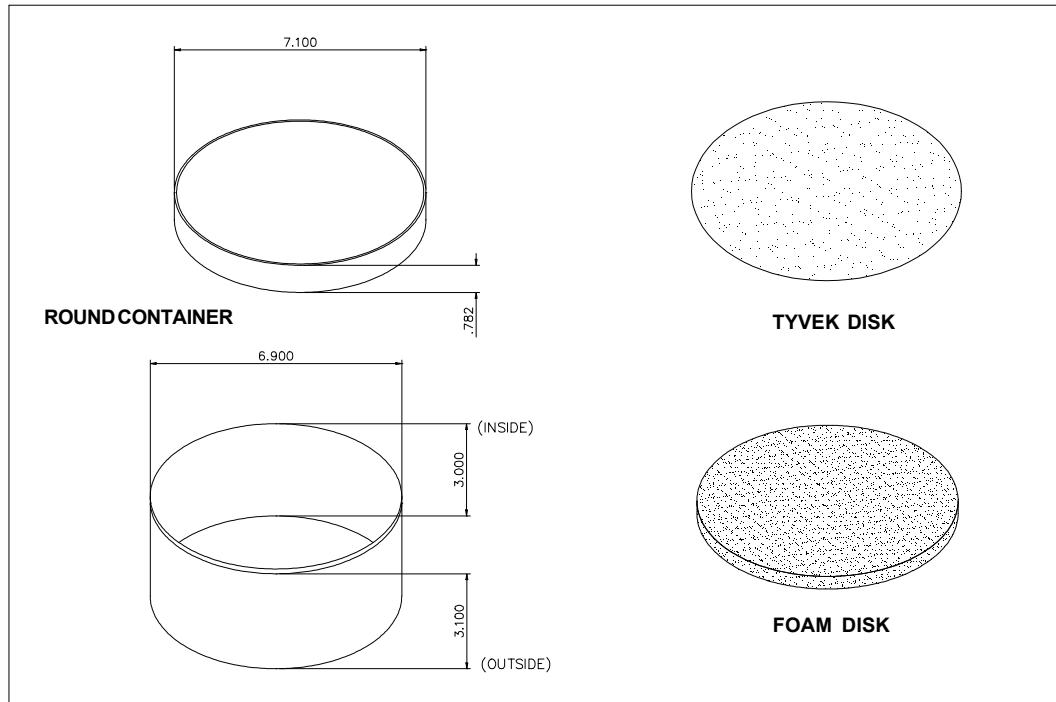
Ordering Information Table



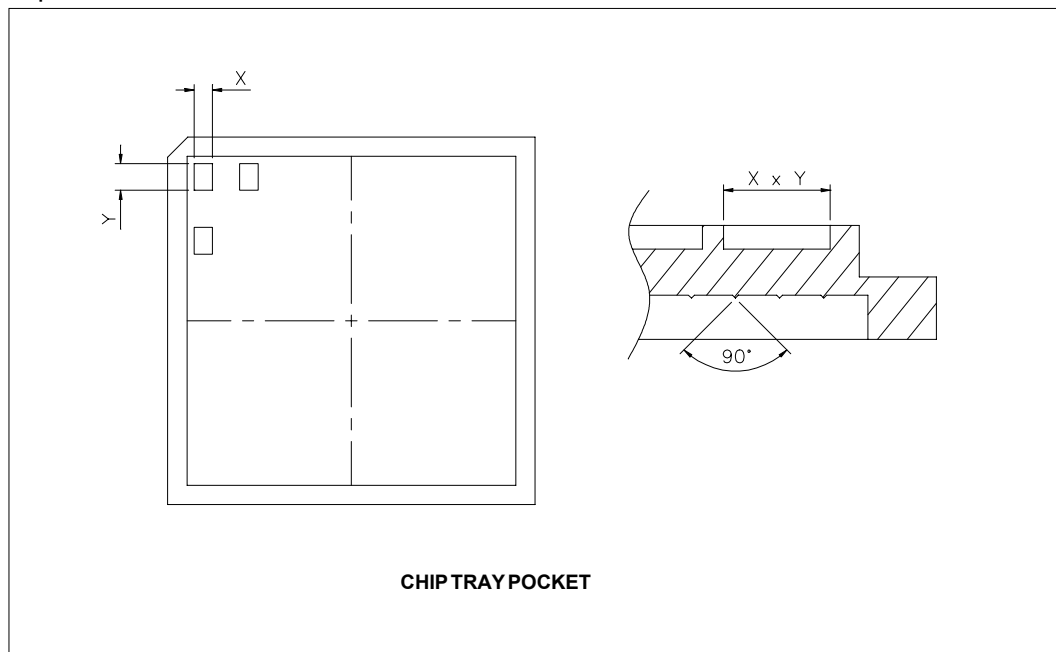
Wafer on Film



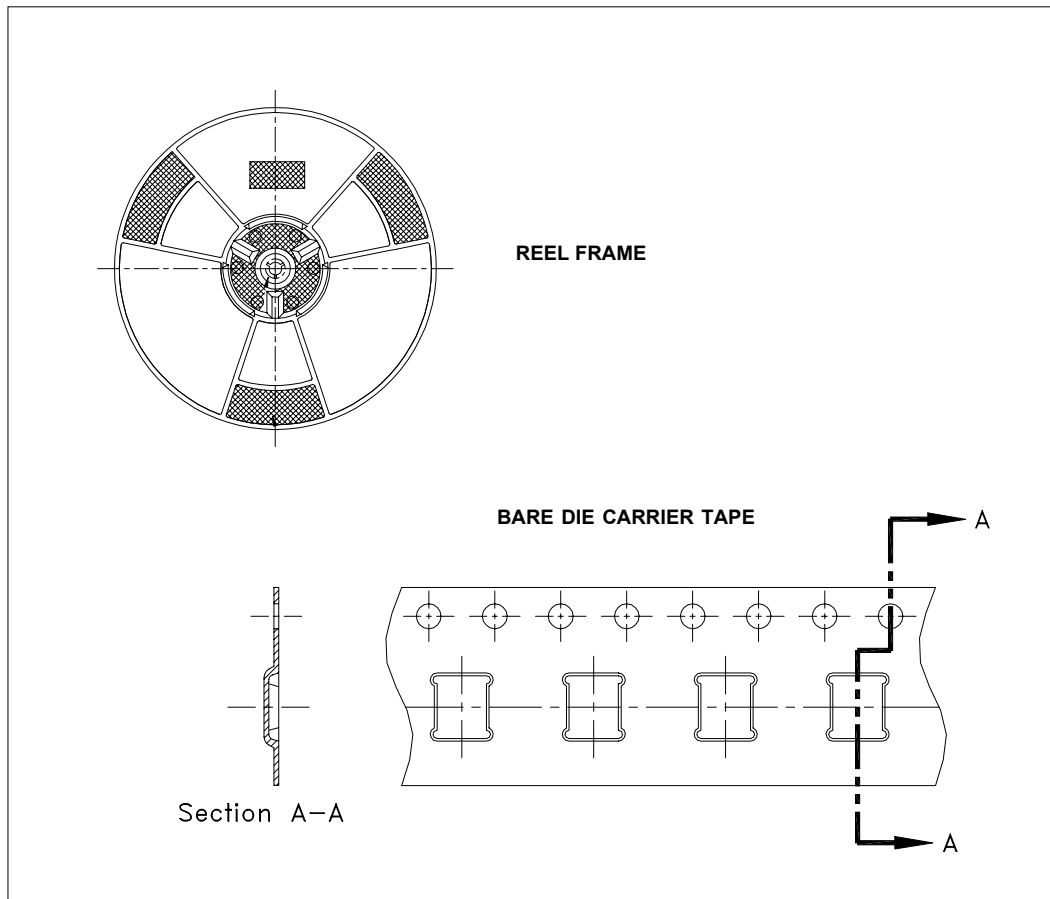
Wafer in Box



Tape and Reel



Die in Waffle Pack



International
IR Rectifier

WORLD HEADQUARTERS: 233 Kansas St., El Segundo, California 90245 U.S.A. Tel: (310) 322 3331. Fax: (310) 322 3332.
EUROPEAN HEADQUARTERS: Hurst Green, Oxted, Surrey RH8 9BB, U.K. Tel: ++ 44 1883 732020. Fax: ++ 44 1883 733408.
IR CANADA: 15 Lincoln Court, Brampton, Markham, Ontario L6T3Z2. Tel: (905) 453 2200. Fax: (905) 475 8801.
IR GERMANY: Saalburgstrasse 157, 61350 Bad Homburg. Tel: ++ 49 6172 96590. Fax: ++ 49 6172 965933.
IR ITALY: Via Liguria 49, 10071 Borgaro, Torino. Tel: ++ 39 11 4510111. Fax: ++ 39 11 4510220.
IR FAR EAST: K&H Bldg., 2F, 30-4 Nishi-Ikebukuro 3-Chome, Toshima-Ku, Tokyo, Japan 171. Tel: 81 3 3983 0086.
IR SOUTHEAST ASIA: 1 Kim Seng Promenade, Great World City West Tower, 13-11, Singapore 237994. Tel: ++ 65 838 4630.
IR TAIWAN: 16 Fl. Suite D.207, Sec. 2, Tun Haw South Road, Taipei, 10673, Taiwan. Tel: 886 2 2377 9936.

<http://www.irf.com>

Fax-On-Demand: +44 1883 733420

Data and specifications subject to change without notice.