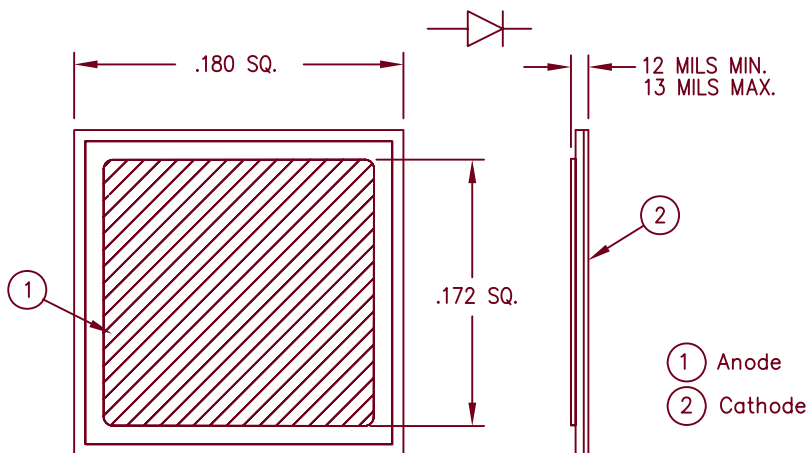


# JANH C and JANKC Equivalents 1N6391 Schottky Rectifier Die



- Schottky Barrier Rectifier
- Guard Ring Protected
- 25A Average, 45V
- Solderable silver both sides
- Available with Al top and/or gold back – contact factory
- Cells with moly discs available – contact factory

## Electrical Characteristics (Properly Packaged)

Average forward current	$I_F(AV)$ 25 Amps	$T_C = 125^\circ C$ , Square wave, $R_{\theta JC} = 2.0^\circ C/W$
Maximum surge current	$I_{FSM}$ 600 Amps	8.3 ms, half sine, $T_J = 175^\circ C$
Max reverse energy	$I_R(OV)$ 2 Amps	$L = 260\mu H, \leq 1\%$ Duty Cycle
Max peak forward voltage	$V_{FM}$ .50 Volts	$I_{FM} = 5A: T_J = 25^\circ C^*$
Max peak forward voltage	$V_{FM}$ .68 Volts	$I_{FM} = 50A: T_J = 25^\circ C^*$
Max peak reverse current	$I_{RM}$ 15 mA	$V_{RRM}, T_J = 25^\circ C$
Max peak reverse current	$I_{RM}$ 40 mA	$V_{RRM}, T_J = 125^\circ C^*$
Max peak reverse current	$I_{RM}$ 400 mA	$V_{RRM}, T_J = 175^\circ C^*$
Maximum junction capacitance	$C_J$ 2000 pF	$V_R = 5.0V, T_J = 25^\circ C$

\*Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%

## Group A Die Element Evaluation Electrical Tests

Subgroup	Method	Symbol	Max. Limit	Unit
<u>Subgroup 2</u>				
Thermal Impedence	3101	$Z_{\theta JX}$	2	$^\circ C/W$
Forward voltage @ 50Apk	4011	$V_{FM1}$	0.68	V(pk)
Forward voltage @ 5Apk	4011	$V_{FM2}$	0.5	V(pk)
Reverse current @ 45V	4016	$I_{RM1}$	15	mA(pk)
<u>Subgroup 3</u>				
Reverse current @ 45V, 175°C	4016	$I_{RM2}$	400	mA(pk)
Reverse current @ 45V, 125°C	4016	$I_{RM3}$	40	mA(pk)
Reverse current @ 45V, -55°C	4016	$I_{RM4}$	400	mA(pk)
Forward voltage @ 5Apk, -55°C	4011	$I_{RM3}$	0.6	V(pk)
<u>Subgroup 4</u>				
Reverse current @ $V_{RSM} = 54V$	4016	$I_{RM5}$	2	A(pk)
Capacitance @ $V_R = 5V$	4001	$C_T$	2000	pF