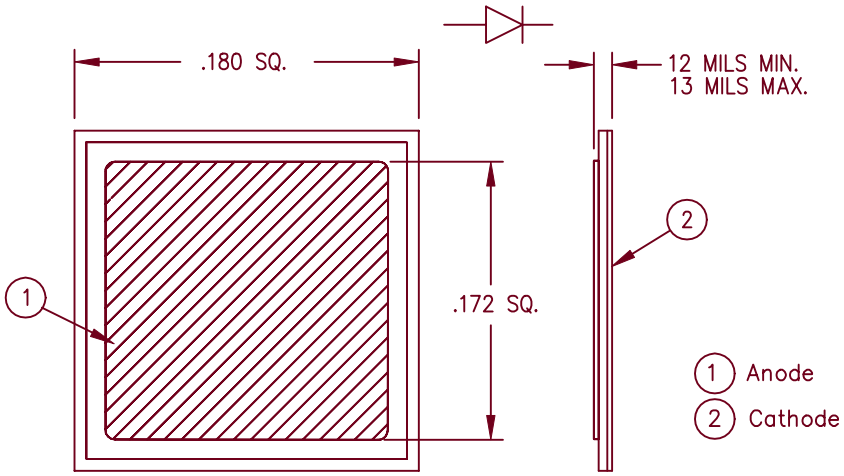
JANHC and JANKC Equivalents
1N6391 Schottky Rectifier Die



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

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

Group A Die Element Evaluation Electrical Tests

		Method	Symbol	Max. Limit	Unit
Subgroup 2					
	Thermal Impedence	3101	Z_{OJX}	2	°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)
Subgroup 3					
	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)
Subgroup 4					
	Reverse current @ V_{RSM} = 54V	4016	I_{RM5}	2	A(pk)
	Capacitance @ V_R = 5V	4001	C_T	2000	pF

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