



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

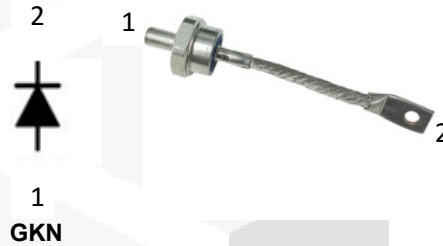


Silicon Standard Recovery Diode

 $V_{RRM} = 400\text{ V} - 1800\text{ V}$
 $I_F = 165\text{ A}$

Features

- High Surge Capability
- Types up to 1800 V V_{RRM}
- Equivalent to SKN130 Series
- Not ESD Sensitive

DO-8 Package


Maximum ratings, at $T_j = 25\text{ °C}$, unless otherwise specified (GKR has leads reversed)

Parameter	Symbol	Conditions	GKN130/04	GKN130/08	GKN130/12	GKN130/14	GKN130/16	GKN130/18	Unit
Repetitive peak reverse voltage	V_{RRM}		400	800	1200	1400	1600	1800	V
DC blocking voltage	V_{DC}		400	800	1200	1400	1600	1800	V
Continuous forward current	I_F	$T_C \leq 100\text{ °C}$	165	165	165	165	165	165	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}, t_p = 10\text{ ms}$	2500	2500	2500	2500	2500	2500	A
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics, at $T_j = 25\text{ °C}$, unless otherwise specified

Parameter	Symbol	Conditions	GKN130/04	GKN130/08	GKN130/12	GKN130/14	GKN130/16	GKN130/18	Unit
Diode forward voltage	V_F	$I_F = 60\text{ A}, T_j = 25\text{ °C}$	1.5	1.5	1.5	1.5	1.5	1.5	V
Reverse current	I_R	$V_R = V_{RRM}, T_j = 180\text{ °C}$	22	22	22	22	22	22	mA

Thermal characteristics

Parameter	Symbol	Conditions	GKN130/04	GKN130/08	GKN130/12	GKN130/14	GKN130/16	GKN130/18	Unit
Thermal resistance, junction - case	R_{thJC}		0.35	0.35	0.35	0.35	0.35	0.35	K/W

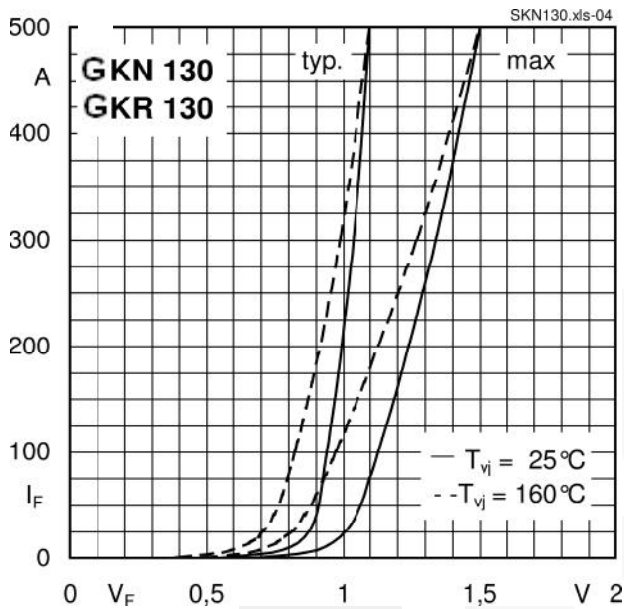


Fig 1: Forward Characteristics

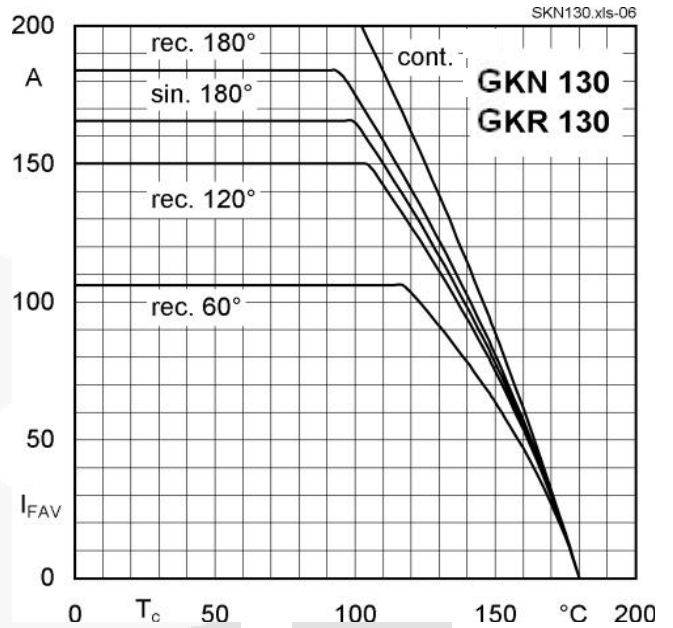


Fig 2: Forward Current vs Case Temp

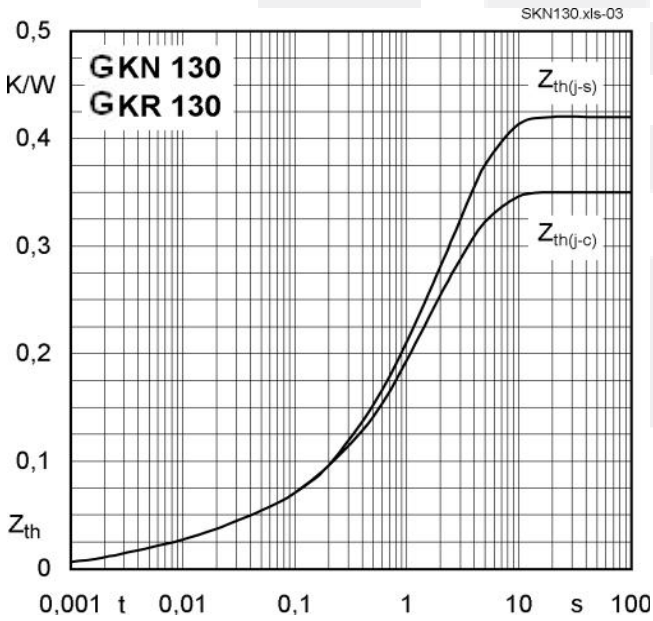


Fig 3: Transient Thermal Impedance vs Time

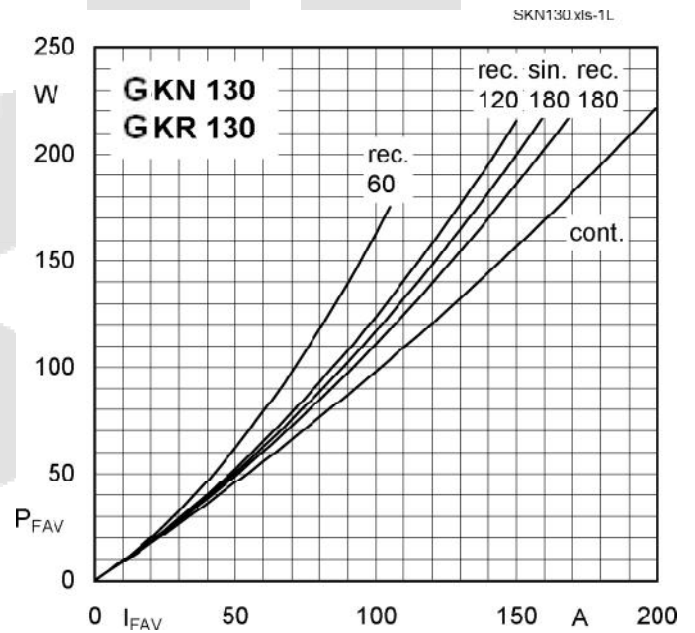
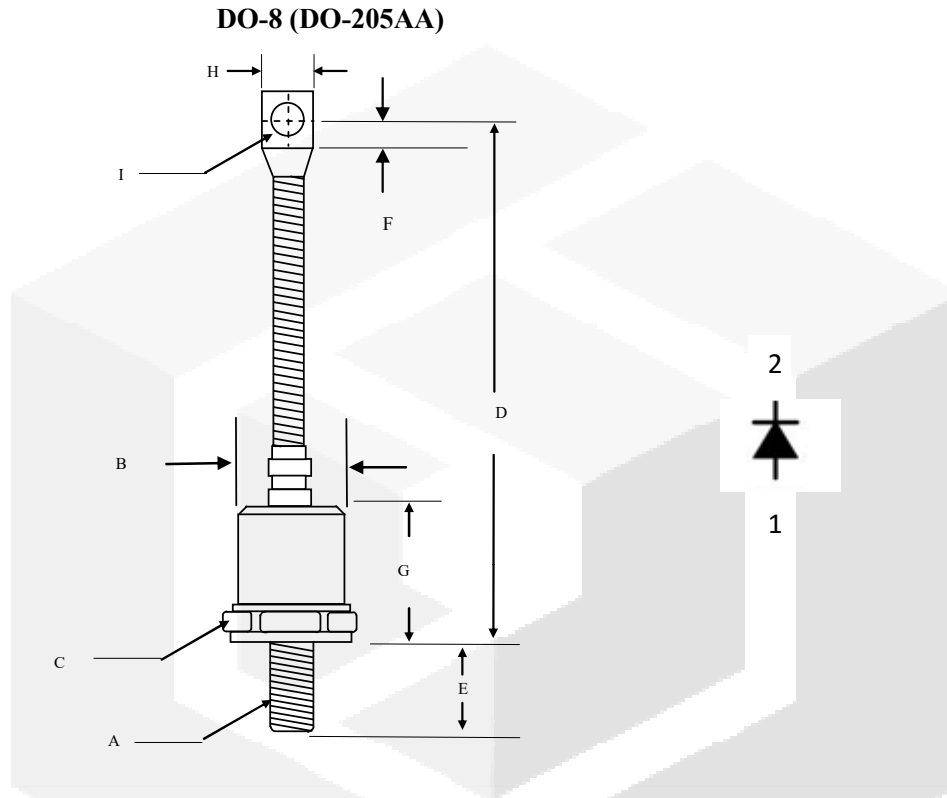


Fig 4: Power Dissipation vs Forward Current

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



	Inches		Millimeters	
	Min	Max	Min	Max
A	3/8-24 UNF			
B	----	$\phi 0.930$	----	$\phi 23.5$
C	1.050	1.060	26.67	26.92
D	4.300	4.700	109.22	119.38
E	----	0.690	----	17.00
F	0.260	----	6.50	----
G	----	0.940	----	24.00
H	----	0.600	----	15.23
I	0.276	0.286	7.010	7.260