

# Silicon Standard Recovery Diode

 $V_{RRM} = 400\text{ V} - 1600\text{ V}$ 
 $I_F = 25\text{ A}$ 

## Features

- High Surge Capability
- Types up to 1600 V  $V_{RRM}$
- Equivalent to SKN26 Series
- Not ESD Sensitive

**DO-4 Package**


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

Parameter	Symbol	Conditions	GKN26/04	GKN26/08	GKN26/12	GKN26/14	GKN26/16	Unit
Repetitive peak reverse voltage	$V_{RRM}$		400	800	1200	1400	1600	V
DC blocking voltage	$V_{DC}$		400	800	1200	1400	1600	V
Continuous forward current	$I_F$	$T_C \leq 100\text{ °C}$	25	25	25	25	25	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}, t_p = 10\text{ ms}$	375	375	375	375	375	A
Operating temperature	$T_j$		-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	°C

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

Parameter	Symbol	Conditions	GKN26/04	GKN26/08	GKN26/12	GKN26/14	GKN26/16	Unit
Diode forward voltage	$V_F$	$I_F = 60\text{ A}, T_j = 25\text{ °C}$	1.55	1.55	1.55	1.55	1.55	V
Reverse current	$I_R$	$V_R = V_{RRM}, T_j = 180\text{ °C}$	4	4	4	4	4	mA

## Thermal characteristics

Parameter	Symbol	Conditions	GKN26/04	GKN26/08	GKN26/12	GKN26/14	GKN26/16	Unit
Thermal resistance, junction - case	$R_{thJC}$		2.00	2.00	2.00	2.00	2.00	K/W

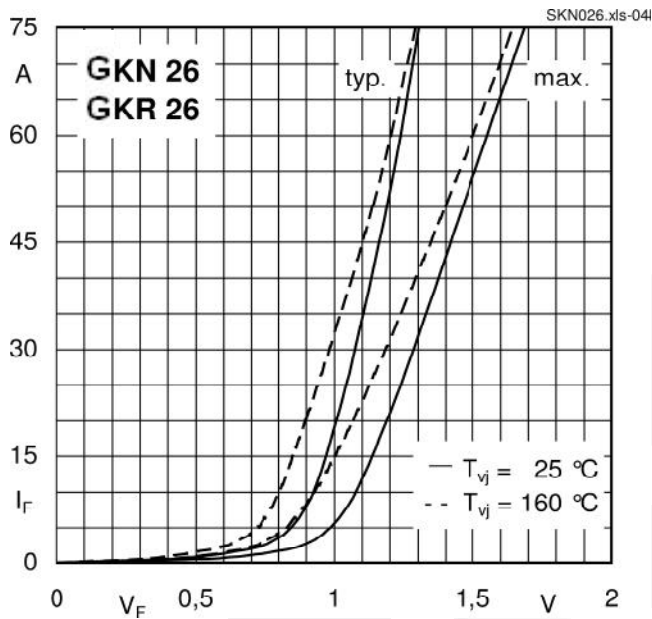


Fig 1: Forward Characteristics

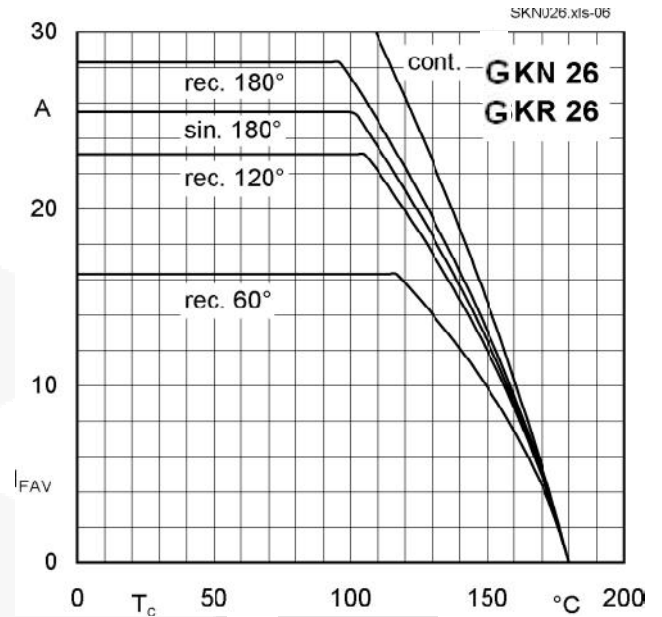


Fig 2: Forward Current vs Case Temp

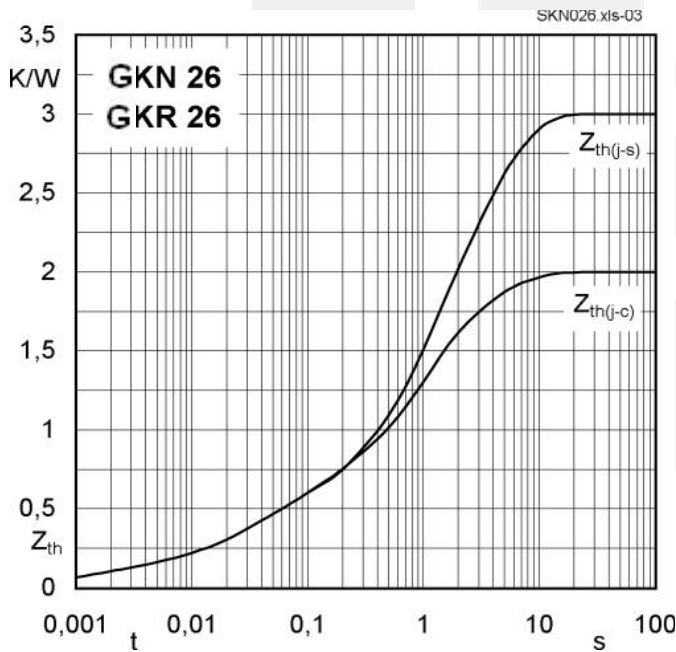


Fig 3: Transient Thermal Impedance vs Time

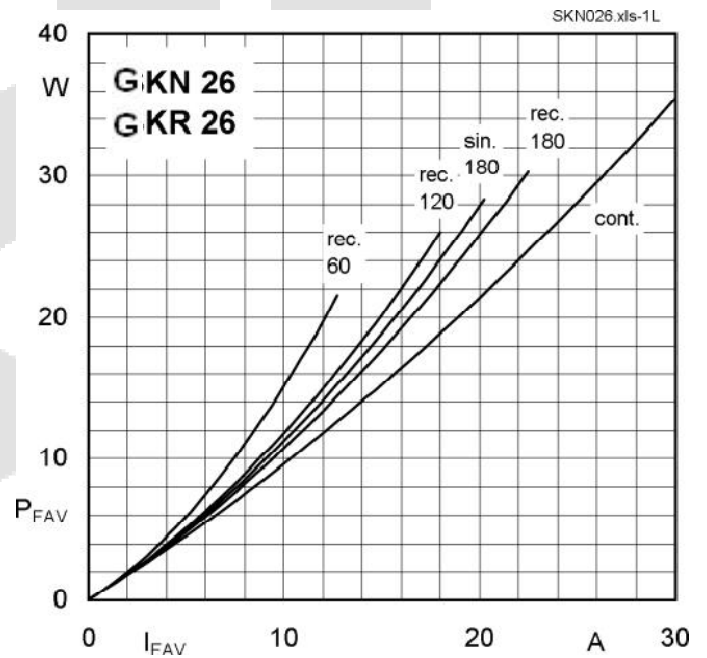
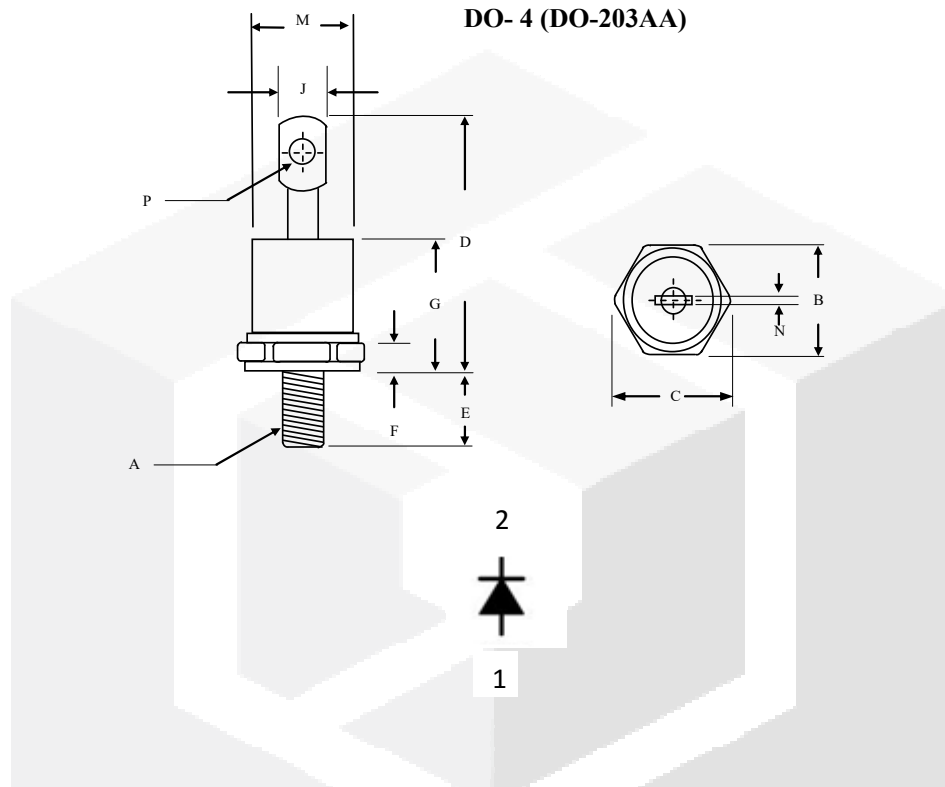


Fig 4: Power Dissipation vs Forward Current

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



	Inches		Millimeters	
	Min	Max	Min	Max
A	10-32 UNF			
B	0.424	0.437	10.77	11.10
C	-----	0.505	-----	12.82
D	-----	0.800	-----	20.30
E	0.453	0.492	11.50	12.50
F	0.114	0.140	2.90	3.50
G	-----	0.405	-----	10.29
J	-----	0.216	-----	5.50
M	-----	φ0.302	-----	φ7.68
N	0.031	0.045	0.80	1.15
P	0.070	0.79	1.80	2.00