

Silicon Standard Recovery Diode

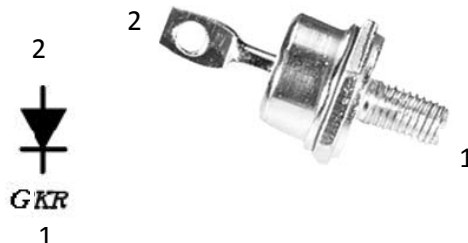
$V_{RRM} = 400\text{ V} - 1600\text{ V}$

$I_F = 95\text{ A}$

Features

- High Surge Capability
- Types up to 1600 V V_{RRM}
- Equivalent to SKR71 Series

DO-5 Package



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

Parameter	Symbol	Conditions	GKR71/04	GKR71/08	GKR71/12	GKR71/14	GKR71/16	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	$T_C \leq 100\text{ }^{\circ}\text{C}$	95	95	95	95	95	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ }^{\circ}\text{C}$, $t_p = 10\text{ ms}$	1150	1150	1150	1150	1150	A
Operating temperature	T_j		-40 to 180	-40 to 180	-40 to 180	-40 to 180	-40 to 180	$^{\circ}\text{C}$
Storage temperature	T_{stg}		-55 to 180	-55 to 180	-55 to 180	-55 to 180	-55 to 180	$^{\circ}\text{C}$

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

Parameter	Symbol	Conditions	GKR71/04	GKR71/08	GKR71/12	GKR71/14	GKR71/16	Unit
Diode forward voltage	V_F	$I_F = 60\text{ A}$, $T_j = 25\text{ }^{\circ}\text{C}$	1.5	1.5	1.5	1.5	1.5	V
Reverse current	I_R	$V_R = V_{RRM}$, $T_j = 180\text{ }^{\circ}\text{C}$	10	10	10	10	10	mA

Thermal characteristics

Thermal resistance, junction - case	R_{thJC}		0.55	0.55	0.55	0.55	0.55	K/W
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