

SEMICELL DIODES

SKN 6002

$I_F = 6000 \text{ A}$

$V_{RRM} = 600 \text{ V}$

Size: diameter: 47,5 mm

Package: tray

Features

Typical Applications

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Absolute Maximum Ratings

Symbol	Conditions	Values	Units
V_{RRM}	$T_{vj} = 25 \text{ }^\circ\text{C}$, $I_R = 2 \text{ mA}$	600	V
$I_{F(AV)}$	$T_{vj} = 25 \text{ }^\circ\text{C}$, $T_{vjmax} = 150 \text{ }^\circ\text{C}$	6000	A
I^2t	$T_{vjmax} = 165 \text{ }^\circ\text{C}$, 10 ms, half sine wave		A ² s
I_{FSM}	$T_{vj} = 25 \text{ }^\circ\text{C}$, 10 ms, half sine wave	60000	A
	$T_{vjmax} = 165 \text{ }^\circ\text{C}$, 10 ms, half sine wave		A
T_{vjmax}		+ 165	$^\circ\text{C}$

Electrical Characteristics

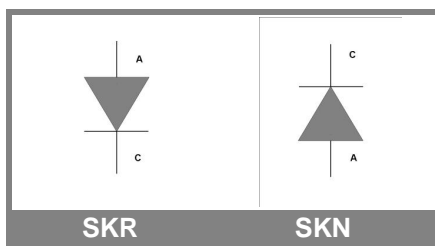
Symbol	Conditions	min.	typ.	max.	Units
I_R	$T_{vj} = 25 \text{ }^\circ\text{C}$, V_{RRM}			2	mA
	$T_{vj} = 165 \text{ }^\circ\text{C}$, V_{RRM}			55	mA
V_F	$T_{vj} = 25 \text{ }^\circ\text{C}$, $I_F = 14000 \text{ A}$		1,25		V
	$T_{vj} = \text{ }^\circ\text{C}$, $I_F = \text{ A}$				V
$V_{(TO)}$	$T_{vj} = \text{ }^\circ\text{C}$,				V
r_T	$T_{vj} = \text{ }^\circ\text{C}$,				m Ω
t_{rr}	$T_{vj} = 25 \text{ }^\circ\text{C}$, $\pm 1 \text{ A}$		10		μs

Thermal Characteristics

Symbol	Conditions	min.	typ.	max.	Units
T_{vj}					$^\circ\text{C}$
T_{stg}					$^\circ\text{C}$
T_{solder}	min				$^\circ\text{C}$
T_{solder}	min				$^\circ\text{C}$
					K / W

Mechanical Characteristics

Parameter	Units
raster size	mm
Area total	mm ²
Chips / Tray	pcs
Anode metallisation	
Cathode metallisation	
wire bond	



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