

DO9-SKR(N)240-16(37441908)
Forward Conduction

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Repetitive peak reverse voltage	V_{RRM}			1600	V	
Non repetitive peak reverse voltage	V_{RSM}			1700	V	
Max. average forward current	$I_{F(AV)}$			320	A	Sinewave, 180° conduction, $T_c=100^{\circ}\text{C}$
Max. RMS forward current	$I_{F(RMS)}$			500	A	Nominal value; $T_c=180^{\circ}\text{C}$
Max. peak, one-cycle forward, non-repetitive surge current	I_{FSM}			5000	A	10.0 msec (50Hz), half sinewave, $T_J = T_J \text{ max}, V_{RM} = 0.6V_{RRM}$
Maximum I^2t for fusing	I^2t			125	kA^2s	
Max. forward voltage drop	V_{FM}			1.4	V	$I_{TM} = 750; T_J = 25^{\circ}\text{C}$
Threshold voltage	V_{FO}			0.85	V	$(16.7\% \times \pi \times I_{F(AV)} < I < \pi \times I_{F(AV)})$, $T_J = T_J \text{ max.}$
Slope resistance	r_F			0.6	$\text{m}\Omega$	

Thermal and Mechanical Specifications

Parameter	Symbol	Min.	Max.	Typ.	Units	Conditions
Operating temperature	T_j	-40	+180		$^{\circ}\text{C}$	
Storage temperature	T_{stg}	-55	+180		$^{\circ}\text{C}$	
Reverse recovery charge	Q_{rr}			200	μc	
Thermal resistance - junction to case	$R_{\Theta(j-c)}$		-	0.2	K/W	
Thermal resistance - case to heatsink	$R_{\Theta(c-s)}$		-	0.03	K/W	
Mounting force	P			30	Nm	$\pm 20\%$
Weight	W	-	-	-	g	About
Case style				DO-9		See Outline Table

CASE OUTLINE AND DIMENSIONS.

