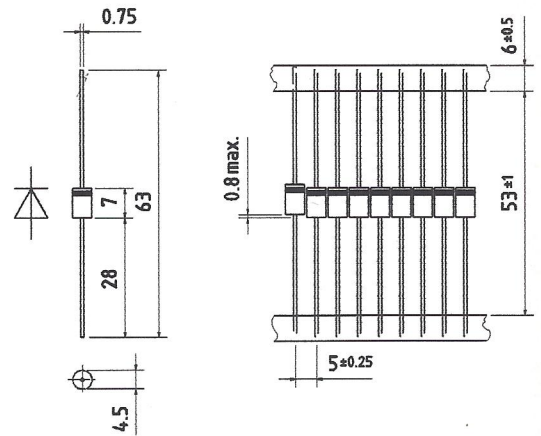


## Fast Recovery Rectifier Diodes

### SK 2F1 SK 4F1

$V_{RSM}$ $V_{RRM}$	$I_{FRMS}$ (maximum values for continuous operation)	
	7A	
V	$I_{FAV}$ (sin. 180; $T_{amb} = 45^{\circ}C$ )	
	1,2A	
	$t_{rr} = 0,2\mu s$	$t_{rr} = 0,4\mu s$
100	SK 2F1/01	SK 4F1/01
200	SK 2F1/02	SK 4F1/02
400	SK 2F1/04	SK 4F1/04
600	SK 2F1/06	SK 4F1/06
800	SK 2F1/08	SK 4F1/08
1000	--	SK 4F1/10



Symbol	Conditions	SK 2F1	SK 4F1	Units
$I_{FAV}$	sin. 180; $T_{amb} = 45^{\circ}C$ ; $f = 50Hz$	1,2		A
$I_{FSM}$	$T_{VJ} = 25^{\circ}C$	70		A
	$T_{VJ} = 130^{\circ}C$	60		A
$i^2t$	$T_{VJ} = 25^{\circ}C$	24,5		$A^2s$
	$T_{VJ} = 130^{\circ}C$	18		$A^2s$
$Q_{rr}$	$T_{VJ} = 130^{\circ}C$ ; $-di_F/dt = 10A/\mu s$ ; $I_{FM} = 1A$	typ. 0,15	typ 0,33	$\mu C$
$I_R$	$T_{VJ} = 25^{\circ}C$ ; $V_R = V_{RRM}$	20 (01, 02)	20 (01, 02)	$\mu A$
		5 (04...08)	5 (04...10)	$\mu A$
$t_{rr}$	$T_{VJ} = 130^{\circ}C$ ; $V_R = V_{RRM}$	1	1	mA
	$T_{VJ} = 25^{\circ}C$	max. 0,25 <sup>1)</sup>	max. 0,45 <sup>1)</sup>	$\mu s$
	$T_{VJ} = 130^{\circ}C$	max. 0,15 <sup>2)</sup>	max. 0,20 <sup>2)</sup>	$\mu s$
$V_F$	$T_{VJ} = 25^{\circ}C$ ; $I_F = 10A$	max. 1,5		V
$V_{(TO)}$	$T_{VJ} = 130^{\circ}C$	1		V
$r_T$	$T_{VJ} = 130^{\circ}C$	50		m $\Omega$
$R_{thja}$		typ. 80		$^{\circ}C/W$
$T_{VJ}$		- 40 ... + 130		$^{\circ}C$
$T_{stg}$		- 40 ... + 130		$^{\circ}C$
a		5 . 9,81		m/s <sup>2</sup>
w	approx.	1		g
Case		DO201AA		

#### Features

- Small recovered charge
- Soft recovery
- Up to 1000V reverse voltage
- Axial leads; taped for automatic insertion

#### Typical Applications

- Switched mode power supplies
- TV sets
- Inverters
- Ultrasonic generators

1)  $I_F = 50mA$ ;  $I_R = 50mA$ ;  $i_{rr} = 10mA$

2)  $I_F = 0,5A$ ;  $I_R = 1A$ ;  $i_{rr} = 0,25mA$