

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Fast Switching Speed
- High Conductance
- Qualified to AEC-Q101 Standards for High Reliability

## MECHANICAL DATE

- Case: DFN1006
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin-Plated Leads; Solderability per MIL-STD-202, Method 208

## MARKING

T4

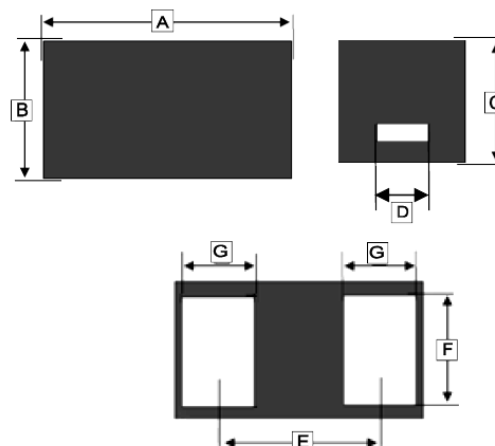
## PACKAGE INFORMATION

Package	MPQ	Leader Size
DFN1006	10K	7 inch

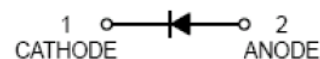
## ORDER INFORMATION

Part Number	Type
SCS4148DFCR-C	Lead (Pb)-free and Halogen-free

### DFN1006



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.075	E	0.64 BSC.	
B	0.55	0.675	F	0.45	0.55
C	0.40	0.55	G	0.20	0.30
D	0.20 TYP.				



## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameters	Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>R</sub>	100	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	75	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>DC</sub>		
RMS Reverse Voltage	V <sub>RMS</sub>	53	V
Average Rectified Output Current	I <sub>O</sub>	150	mA
Peak Forward Current	I <sub>FM</sub>	300	mA
Peak Forward Surge Current	I <sub>FSM</sub>	t=1μs	2
		t=1s	1
Power Dissipation	P <sub>D</sub>	200	mW
Thermal Resistance Junction-Ambient	R <sub>θJA</sub>	625	°C/W
Operating Junction & Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65~150	°C

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	$V_F$	-	-	0.715	V	$I_F=1\text{mA}$
		-	-	0.855		$I_F=10\text{mA}$
		-	-	1		$I_F=50\text{mA}$
		-	-	1.25		$I_F=150\text{mA}$
Peak Reverse Current	$I_R$	-	-	1	$\mu\text{A}$	$V_R=75\text{V}$
		-	-	25	nA	$V_R=20\text{V}$
Junction Capacitance	$C_J$	-	2	-	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time	$T_{RR}$	-	4	-	nS	$I_F=I_R=10\text{mA}$ $I_r=0.1 \times I_R, R_L=100\Omega$

**CHARACTERISTIC CURVES**

Fig.1 Typical Reverse Characteristic

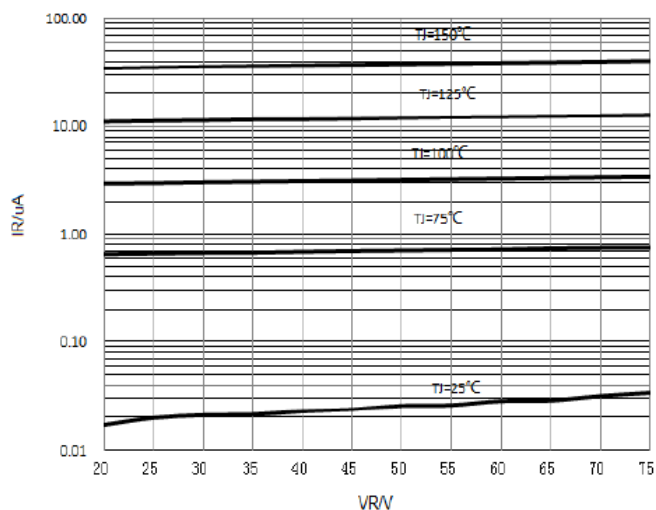


Fig.2 Forward Characteristics

