Elektronische Bauelemente

SCS4148DF-C

0.15A, 75V

Surface Mount Fast Switching Diode

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

FEATURES

- Fast Switching Speed
- High Conductance

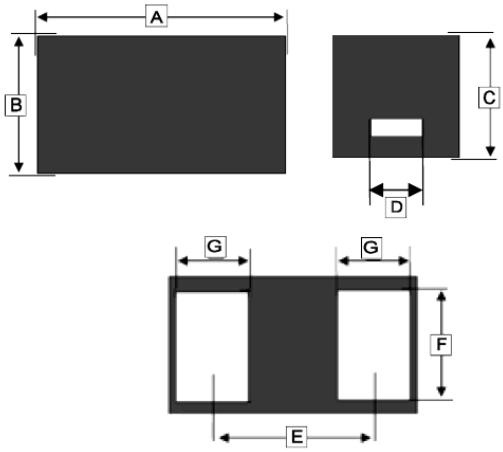
MECHANICAL DATE

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

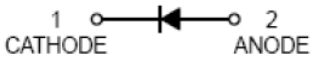
MARKING

T4

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.				



PACKAGE INFORMATION

Package	MPQ	Leader Size
DFN1006	10K	7 inch

ORDER INFORMATION

Part Number	Type
SCS4148DF-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameters		Symbol	Ratings	Unit
Non-Repetitive Peak Reverse Voltage		V_R	100	V
Peak Repetitive Reverse Voltage		V_{RRM}	75	V
Working Peak Reverse Voltage		V_{RWM}		
DC Blocking Voltage		V_{DC}		
RMS Reverse Voltage		V_{RMS}	53	V
Average Rectified Output Current		I_O	150	mA
Peak Forward Current		I_{FM}	300	mA
Peak Forward Surge Current	t=1μs	I_{FSM}	2	A
	t=1s		1	
Power Dissipation		P_D	200	mW
Thermal Resistance Junction-Ambient		$R_{\theta JA}$	625	℃/W
Operating Junction & Storage Temperature Range		T_J, T_{STG}	-65~150	℃

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ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified)

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

CHARACTERISTIC CURVES

Fig.1 Typical Reverse Characteristic

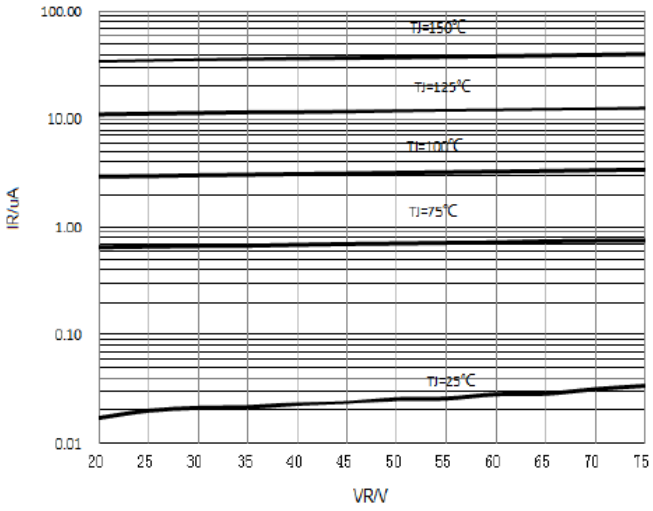

Fig.2 Forward Characteristics