

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

## FEATURES

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability

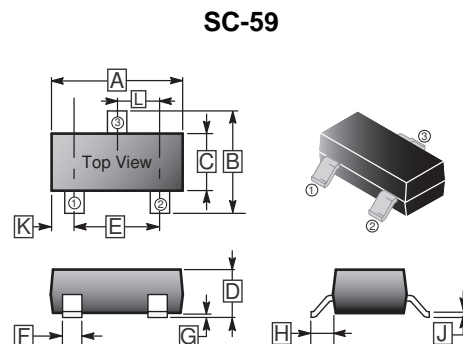
## MARKING

05F

D3A

## PACKAGE INFORMATION

Package	MPQ	Leader Size
SC-59	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.65	3.10	G	0	0.18
B	2.10	3.00	H	0.40	REF.
C	1.10	1.80	J	0.05	0.26
D	0	1.40	K	0.50	REF.
E	1.70	2.30	L	0.95	TYP.
F	0.28	0.55			

## ORDER INFORMATION

Part Number	Type
SCS400D-C	Lead (Pb)-free and Halogen-free



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

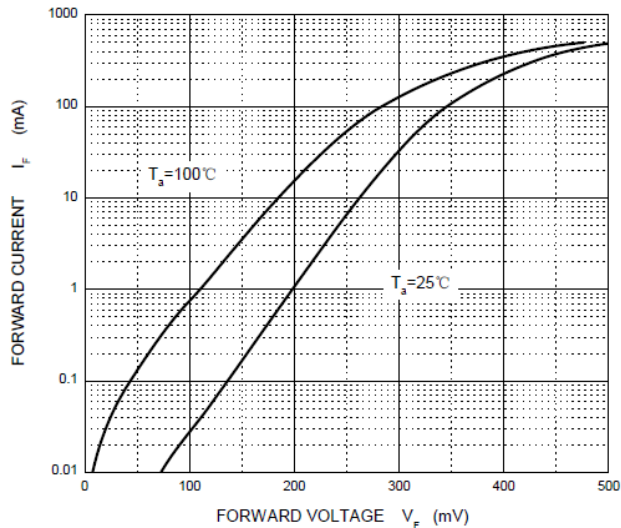
Parameter	Symbol	Ratings	Unit
Peak Reverse Voltage	V <sub>RM</sub>	40	V
DC Reverse Voltage	V <sub>R</sub>	40	V
Average Rectified Output Current	I <sub>O</sub>	0.5	A
Non-Repetitive Peak Forward Surge Current @8.3ms single half sine-wave	I <sub>FSM</sub>	3	A
Power Dissipation	P <sub>D</sub>	250	mW
Thermal Resistance from Junction-Ambient	R <sub>θJA</sub>	400	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-40~125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

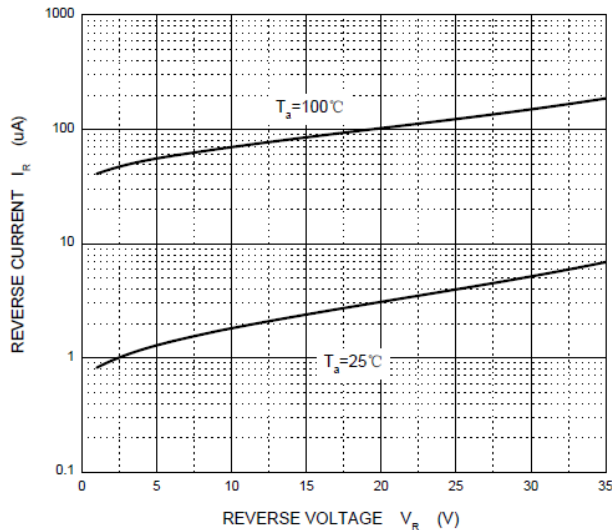
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	40	-	-	V	I <sub>R</sub> =100μA
Forward voltage	V <sub>F</sub>	-	-	0.55	V	I <sub>F</sub> =0.5A
Reverse current	I <sub>R</sub>	-	-	30	uA	V <sub>R</sub> =10V
		-	-	50		V <sub>R</sub> =30V
Capacitance between Terminal	C <sub>T</sub>	-	125	-	pF	V <sub>R</sub> =0V, f=1MHz
		-	20	-		V <sub>R</sub> =10V, f=1MHz

**RATINGS AND CHARACTERISTIC CURVES**

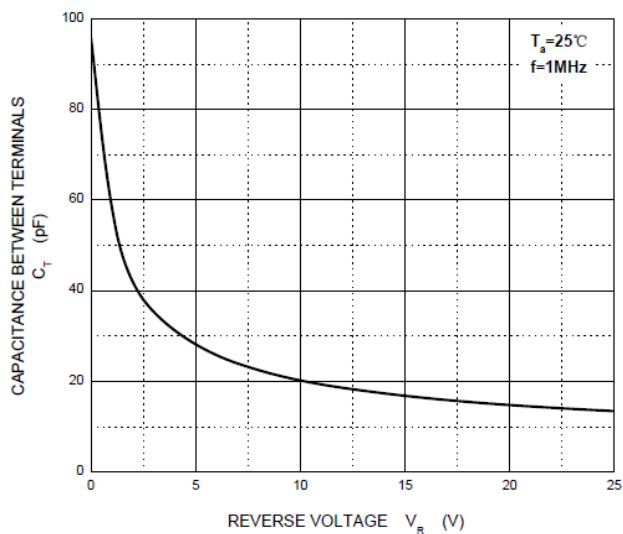
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**

