

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

DESCRIPTION

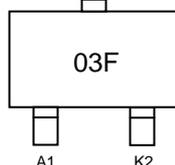
The SCS494D is designed for low power rectification.

FEATURE

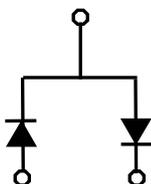
- ◆ Two diodes with serial
- ◆ High reliability

MARKING CODE

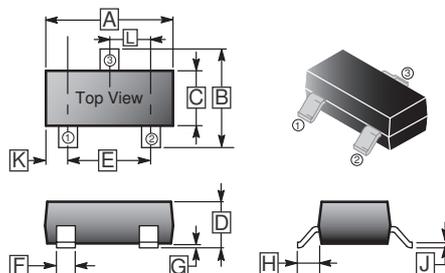
Marking $K_{1,A2}$



Circuit



SC-59



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	0.10	REF.
B	2.25	3.00	H	0.40	REF.
C	1.30	1.70	J	0.10	0.20
D	1.00	1.40	K	0.45	0.55
E	1.70	2.30	L	0.85	1.15
F	0.35	0.50			

ABSOLUTE MAXIMUM RATINGS at $T_A = 25^\circ\text{C}$

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	25	V
Peak Forward Surge Current at 8.3 m Sec single half sine-wave	I_{FSM}	2.0	A
Typical Junction Capacitance between Terminal ¹	C_J	20	pF
Maximum Average Forward Rectified Current	I_O	0.4	A
Total Power Dissipation	P_D	225	mW
Junction, Storage Temperature	T_J, T_{STG}	125, -40~125	$^\circ\text{C}$

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

PARAMETERS	SYMBOL	MIN.	MAX.	UNIT	TEST CONDITIONS
Maximum Instantaneous Forward Voltage	V_{F1}	-	0.3	V	$I_{F1} = 10\text{mA}$
Maximum Instantaneous Forward Voltage	V_{F2}	-	0.5	V	$I_{F2} = 200\text{mA}$
Maximum Average Reverse Current	I_R	-	70	μA	$V_R = 25\text{V}$

Note: 1. Measured at 1.0MHz and applied reverse voltage of 10.0 volts.
2. ESD sensitive product handling required.

RATINGS AND CHARACTERISTIC CURVES

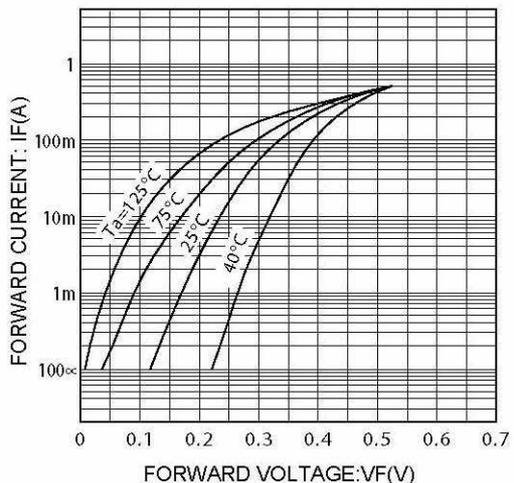


Fig.1 Forward characteristics

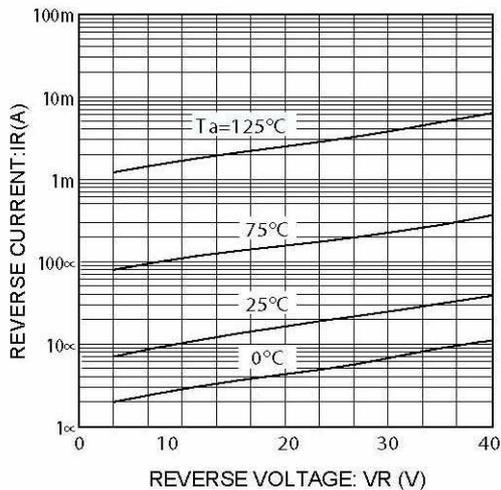


Fig.2 Reverse characteristics

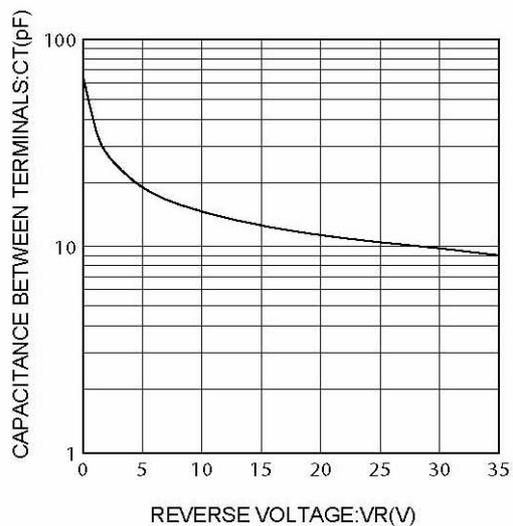


Fig.3 Capacitance between terminals characteristics