Elektronische Bauelemente

SCS715F

VOLTAGE 40V
0.03AMP Schottky Barrier Rectifiers

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

●Applications

General purpose detection
High speed switching

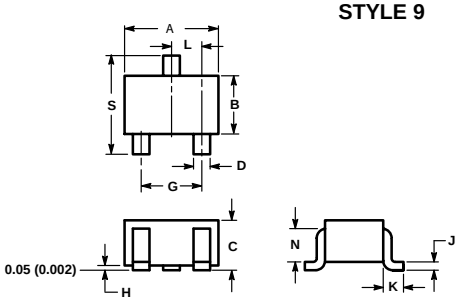
●Features

1) Small surface mounting type (EMD3, UMD3)
2) Low V_F and low I_R
3) High reliability.
4) Lead Free Prodect.

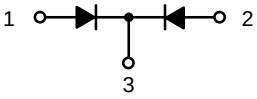
●Construction

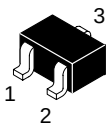
Silicon epitaxial planar

(SC–70)
SOT–323
CASE 419
STYLE 9



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.032	0.040	0.80	1.00
D	0.012	0.016	0.30	0.40
G	0.047	0.055	1.20	1.40
H	0.000	0.004	0.00	0.10
J	0.004	0.010	0.10	0.25
K	0.017 REF		0.425 REF	
L	0.026 BSC		0.650 BSC	
N	0.028 REF		0.700 REF	
S	0.079	0.095	2.00	2.40





SCS715F Marking : JE,3D

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	30	mA
Peak forward surge current*	I_{FSM}	200	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–40~+125	°C

* 60 Hz for 1 ∿

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	–	–	0.37	V	I_F=1mA
Reverse current	I_R	–	–	1	μA	V_R=10V
Capacitance between terminals	C_T	–	2.0	–	pF	V_R=1V, f=1MHz

Note) ESD sensitive product handling required.

RATING AND CHARACTERISTIC CURVES (SCS715F)

● **Electrical characteristic curves** (Ta = 25°C)

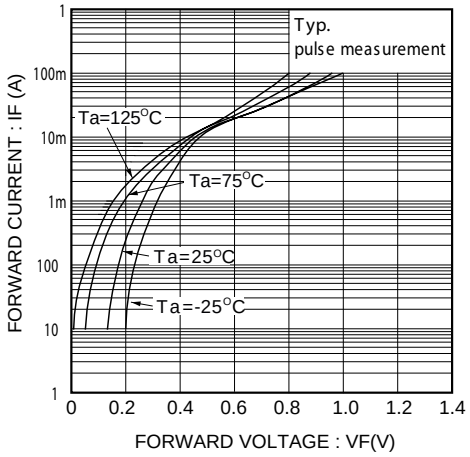


Fig. 1 Forward characteristics

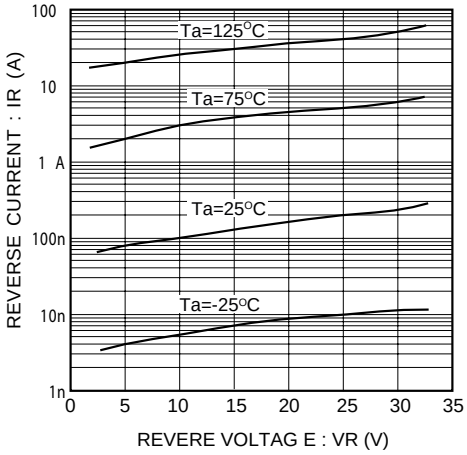


Fig. 2 Reverse characteristics

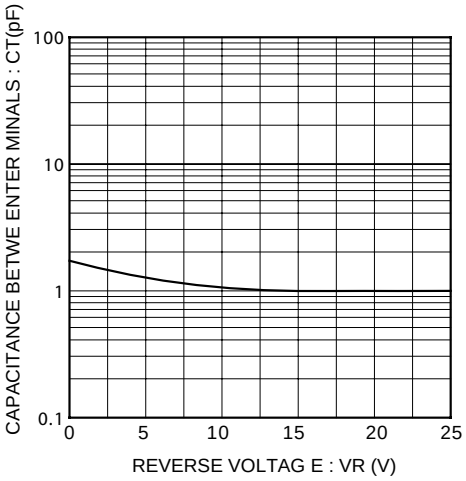


Fig. 3 Capacitance between terminals characteristics

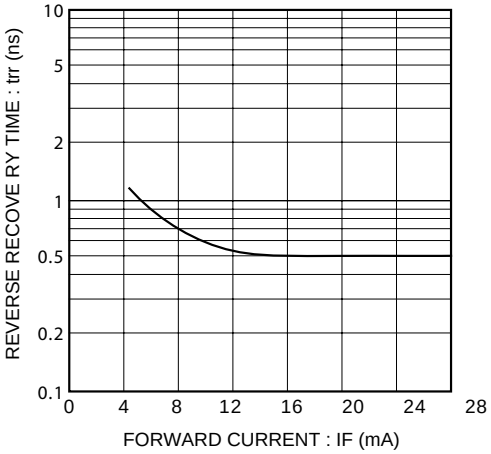


Fig. 4 Reverse recovery time characteristics

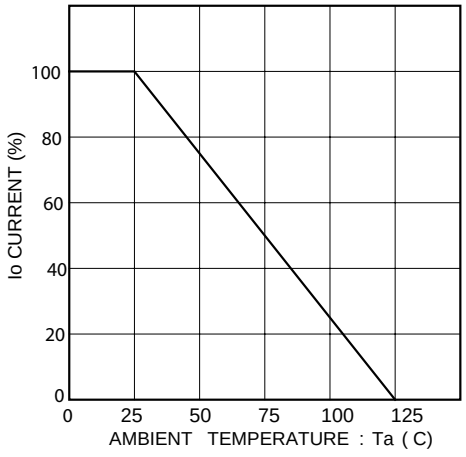


Fig.5 Derating curve
(mounting on glass epoxy P C Bs)