Elektronische Bauelemente

UMMD07540

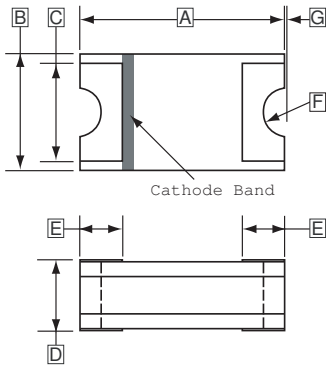
40V, 0.75 Amp
Surface Mount Small Signal
Schottky Barrier Rectifiers

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

FEATURES

- Lead less chip form, no lead damage
- Lead-free solder joint, no wire bond & lead frame
- Low power loss, high efficiency
- Plastic package has underwriters laboratory flammability Classification 94V-0

0603



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.50	1.80	E	0.6TPY.	
B	0.75	1.00	F	R 0.20	
C	0.70 TYP.		G	0.05 REF.	
D	0.45	0.80			

APPLICATION

- Switching mode power supply applications
- Portable equipment battery applications
- High frequency rectification

MECHANICAL DATA

- Case: Packed with FRP substrate and epoxy underfilled
- Terminals: Pure tin-plated (lead-free), solderable per MIL-STD-750, method 2026.
- Polarity: Laser cathode band marking
- Weight : 0.002 gram

MARKING

C

PACKAGE INFORMATION

Package	MPQ	Leader Size
0603	5K	7 inch

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

Parameter	Symbol	Rating	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Forward Current	I_O	0.75	A
Peak Forward Surge Current @ 8.3 ms half sine-wave	I_{FSM}	3	A
Operating & Storage Junction Temperature range	T_J ,T_{STG}	-55~125	℃

ELECTRICAL CHARACTERISTICS (T_A = 25℃ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	V_F	-	0.29	0.4	V	I_F =10mA DC
		-	0.37	-		I_F =100mA DC
		-	0.41	0.7		I_F =200mA DC
			0.55	-		I_F =750mA DC
Repetitive Peak Reverse Current	I_R	-	-	10	μA	V_R =30V, T_J =25℃
Junction capacitance	C_D	-	17	-	pF	f =1MHz and applied 10V DC reverse voltage

RATINGS AND CHARACTERISTIC CURVES

FIG.1- FORWARD CHARACTERISTICS

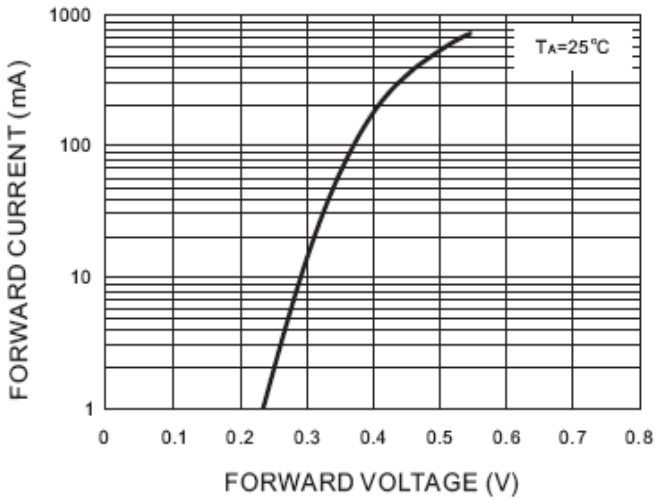


FIG.2- REVERSE CHARACTERISTICS

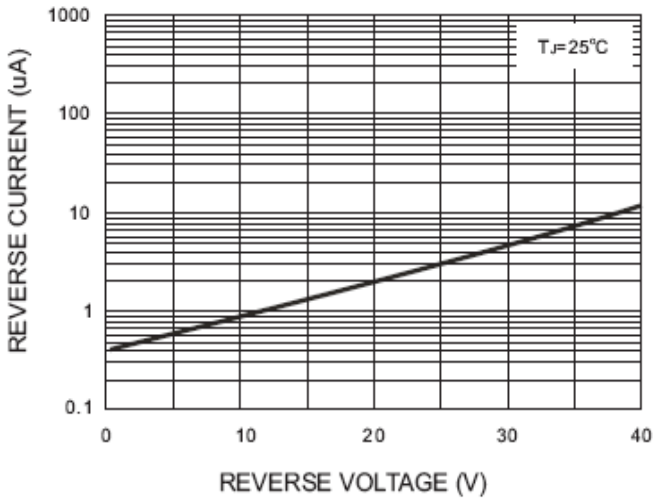


FIG.3- TERMINALS CHARACTERISTICS

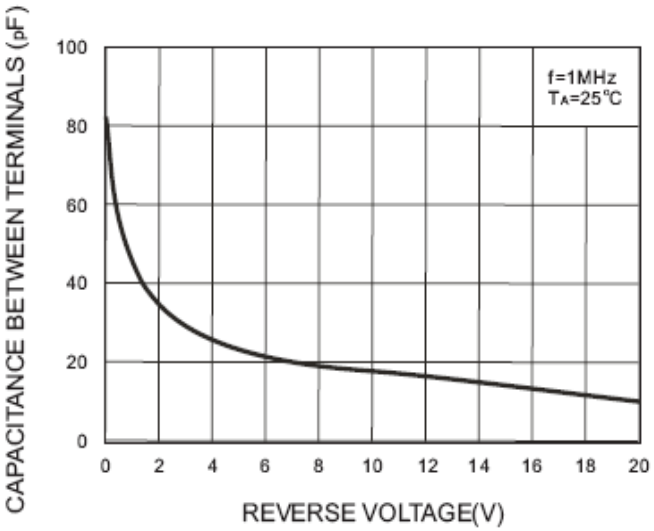


FIG.4- POWER RATING DERATING CURVE