

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

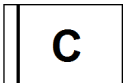
## APPLICATION

- 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



## PACKAGE INFORMATION

Package	MPQ	Leader Size
0603	5K	7 inch

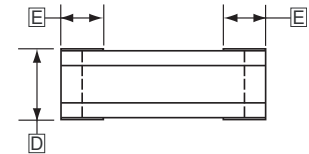
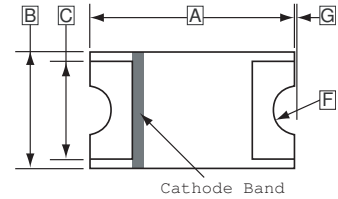
## ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ unless otherwise specified)

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	$^\circ\text{C}$

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

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

**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			

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1- FORWARD CHARACTERISTICS

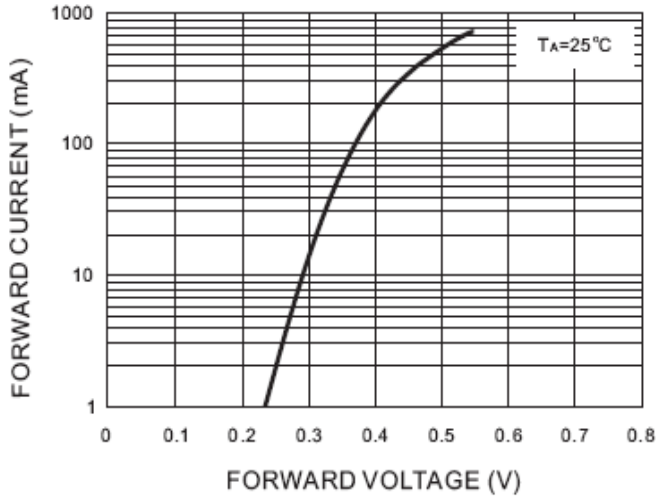


FIG.2- REVERSE CHARACTERISTICS

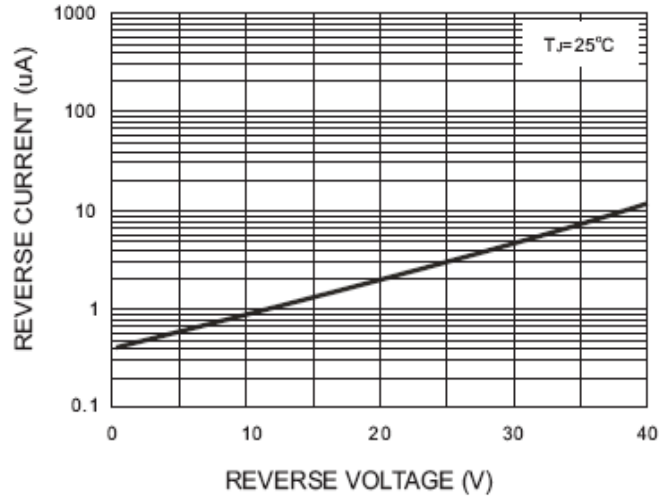


FIG.3- TERMINALS CHARACTERISTICS

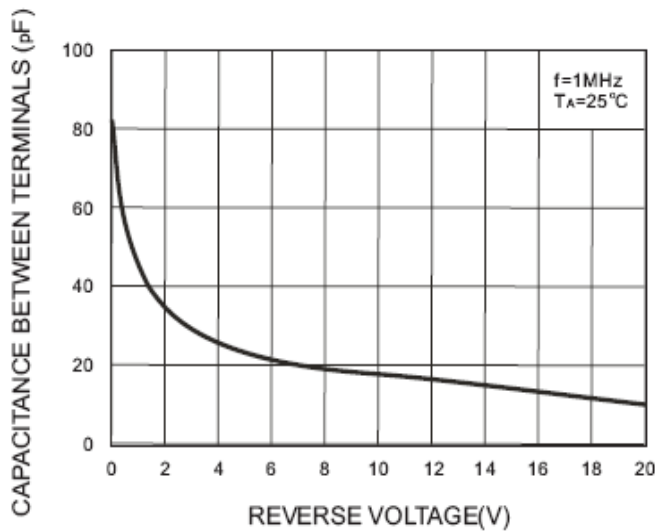


FIG.4- POWER RATING DERATING CURVE

