

# **SM6T100CA**

### **SM6T100CA Information**



| Part Number  | SM6T100CA  |
|--------------|--|
| Manufacturer | STMicroelectronics   |
| Category     | Circuit Protection<br>TVS - Diodes   |
| Description  | TVS DIODE 85.5VWM 178VC SMB  |
| Package      | DO-214AA, SMB  |
|              | For the pricing/inventory/lead time, please contact<br>us<br>Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com |



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#### For Reference Only

## **Certified Quality**

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### **SM6T100CA Specifications**

| Manufacturer Part NumberSM6T100CAManufacturerSTMicroelectronicsCategoryCircuit ProtectionPackageDO-214AA, SMBSeriesSM6T, TRANSIL?TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Clamping (Max) @ Ipp95VVoltage - Clamping (Max) @ Ipp600WPower Line ProtectionNoApplicationsGeneral PurposeOperating Temperature-5°C ~ 150°C (TJ)Mouning TypeSurface MountPackage / CaseDO-214AA, SMBSupplier Device PackageSMB (DO-214AA)                                  |                                  |                    |
|---|----------------------------------|--------------------|
| CategoryCircuit ProtectionCategoryCircuit ProtectionPackageDO-214AA, SMBPackageSMGT, TRANSIL?SeriesSMGT, TRANSIL?TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/100µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MustPackage / CaseDO-214AA, SMB | Manufacturer Part Number         | SM6T100CA          |
| TVS - DiodesPackageDO-214AA, SMBSeriesSM6T, TRANSIL?TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB   | Manufacturer                     | STMicroelectronics |
| PackageDO-214AA, SMBSeriesSM6T, TRANSIL?TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Category                         | Circuit Protection |
| SeriesSM6T, TRANSIL?TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/100µs)22.5A (8/20µs)Power Line ProtectionMoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  |                                  | TVS - Diodes       |
| TypeZenerUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Type55°C ~ 150°C (TJ)Mounting TypeDO-214AA, SMB  | Package                          | DO-214AA, SMB      |
| AUnidirectional Channels-Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse (10/1000µs)600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Series                           | SM6T, TRANSIL?     |
| Bidirectional Channels1Bidirectional Channels1Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Туре                             | Zener              |
| Voltage - Reverse Standoff (Typ)85.5VVoltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/100µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature50°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDo-214AA, SMB   | Unidirectional Channels          | -                  |
| Voltage - Breakdown (Min)95VVoltage - Clamping (Max) @ Ipp178VCurrent - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Bidirectional Channels           | 1                  |
| Voltage - Clamping (Max) @ Ipp 178V   Current - Peak Pulse (10/1000µs) 22.5A (8/20µs)   Power - Peak Pulse 600W   Power Line Protection No   Applications General Purpose   Capacitance @ Frequency -   Operating Temperature 55°C ~ 150°C (TJ)   Mounting Type Surface Mount   Package / Case DO-214AA, SMB  | Voltage - Reverse Standoff (Typ) | 85.5V              |
| Current - Peak Pulse (10/1000µs)22.5A (8/20µs)Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Voltage - Breakdown (Min)        | 95V                |
| Power - Peak Pulse600WPower Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Voltage - Clamping (Max) @ Ipp   | 178V               |
| Power Line ProtectionNoApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Current - Peak Pulse (10/1000µs) | 22.5A (8/20µs)     |
| ApplicationsGeneral PurposeCapacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB   | Power - Peak Pulse               | 600W               |
| Capacitance @ Frequency-Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Power Line Protection            | No                 |
| Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseDO-214AA, SMB  | Applications                     | General Purpose    |
| Mounting TypeSurface MountPackage / CaseDO-214AA, SMB   | Capacitance @ Frequency          | -                  |
| Package / Case DO-214AA, SMB  | Operating Temperature            | -55°C ~ 150°C (TJ) |
| -   | Mounting Type                    | Surface Mount      |
| Supplier Device Package SMB (DO-214AA)  | Package / Case                   | DO-214AA, SMB      |
|   | Supplier Device Package          | SMB (DO-214AA)     |
| Report errors   |                                  | Report errors?     |

#### **SM6T100CA Guarantees**



Quality Guarantees

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.

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#### **Service Guarantees**

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