

Small-signal MOSFET Q-portfolio | $T_j = 175\text{ }^{\circ}\text{C}$

Key features:

- AEC-Q101 qualified
- Temperature range $T_j = 175\text{ }^{\circ}\text{C}$
- ElectroStatic Discharge (ESD) protection

Key benefits:

- In-house supply
- Longevity of 10 years
- Quality standards exceeding AEC-Q101

Key applications:

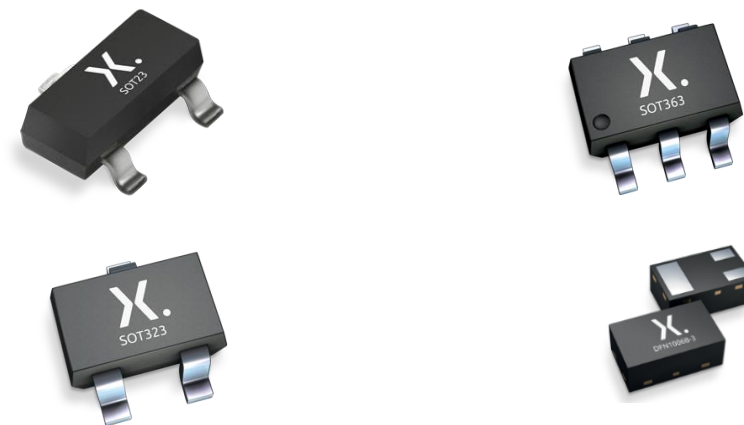
- Low-side load switch
- High-speed line drivers
- Relay driver
- Switching circuits

Technical details:

- N-Ch portfolio
- Market standard 2N7002 and BSS138 specification

Packages:

- Standard leaded packages for general purpose application
- Small DFN for Infotainment applications



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V_{DS} (V)	V_{GS} (V)	I_D (A)	V_{GSth} min (V)	V_{GSth} max (V)	ESD (kV)	R_{DS(on)} typ (mΩ) @ V_{GS} =		SOT23	SOT323	SOT363	DFN1006	DFN1110D-3	DFN1412-6
						10 V	4.5 V						
60	20	0.25	0.8	1.5	0.5	2200	2500	BSS138AK-Q	BSS138AKW-Q	BSS138AKS-Q	BSS138AKM-Q	BSS138AKQB-Q	BSS138AKRA-Q
60	20	0.25	1.3	2.6	0.5	2200	2500	2N7002AK-Q	2N7002AKW-Q	2N7002AKS-Q	2N7002AKM-Q	2N7002AKQB-Q	2N7002AKRA-Q