



	V _{CEO}	50	Vdc
Collector Current – Continuous	I _C	100	mAdc
vv	-	-	

ll

MUN2132, MMUN2132L, MUN5132, DTA143EE, DTA143EM3, NSBA143EF3

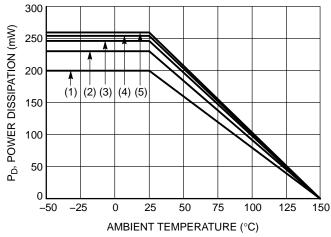
Table 1. ORDERING INFORMATION

Device	Part Marking	Package	Shipping [†]
MUN2132T1G, NSVMUN2132T1G*	6J	SC–59 (Pb–Free)	3000 / Tape & Reel
MMUN2132LT1G, NSVMMUN2132LT1G*	A6J	SOT-23 (Pb-Free)	3000 / Tape & Reel
MUN5132T1G, NSVMUN5132T1G*	6J	SC-70/SOT-323 (Pb-Free)	3000 / Tape & Reel
DTA143EET1G	43	SC-75 (Pb-Free)	3000 / Tape & Reel
DTA143EM3T5G, NSVDTA143EM3T5G*	6J	SOT-723 (Pb-Free)	8000 / Tape & Reel
NSBA143EF3T5G	A (90°)*	SOT–1123 (Pb–Free)	8000 / Tape & Reel

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

*S and NSV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

** $(xx^{\circ}) = Degree rotation in the clockwise direction.$



(1) SC-75 and SC-70/SOT-323; Minimum Pad
(2) SC-59; Minimum Pad
(3) SOT-23; Minimum Pad
(4) SOT-1123; 100 mm², 1 oz. copper trace
(5) SOT-723; Minimum Pad

Figure 1. Derating Curve

MUN2132, MMUN2132L, MUN5132, DTA143EE, DTA143EM3, NSBA143EF3

Table 2. THERMAL CHARACTERISTICS

	Symbol	Мах	Unit	
THERMAL CHARACTERIS	TICS (SC–59) (MUN2132)			
Total Device Dissipation $T_A = 25^{\circ}C$ (Note (Note 2) Derate above 25^{C} (Note 2)	1) (Note 1)	PD	230 338 1.8 2.7	mW mW/°C
Thermal Resistance, Junction to Ambient	(Note 1) (Note 2)	R	-	-

Table 2. THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit				
THERMAL CHARACTERISTICS (SOT-1123) (NSBA143EF3)							
Total Device Dissipation $T_A = 25^{\circ}C$ (Note 3) (Note 4) Derate above 25^{\circ}C (Note 3) (Note 4)	PD	254 297 2.0 2.4	mW mW/°C				
Thermal Resistance,(Note 3)Junction to Ambient(Note 4)	R _{θJA}	493 421	°C/W				
Thermal Resistance, Junction to Lead (Note 3)	R _{θJL}	193	°C/W				
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C				

FR-4 @ Minimum Pad.
 FR-4 @ 1.0 x 1.0 Inch Pad.
 FR-4 @ 100 mm², 1 oz. copper traces, still air.
 FR-4 @ 500 mm², 1 oz. copper traces, still air.

Table 3. ELECTRICAL CHARACTERISTICS (T_A = 25° C, unless otherwise noted)

Characteristic	Symbol	Min	Тур	Max	Unit
OFF CHARACTERISTICS					

MUN2132, MMUN2132L, MUN5132, DTA143EE, DTA143EM3, NSBA143EF3

TYPICAL CHARACTERISTICS MUN2132, MMUN2132L, MUN5132, DTA143EE, DTA143EM3

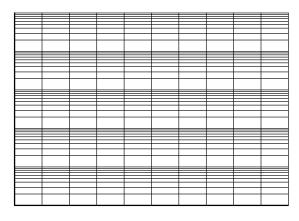
		75°C —	
	25°C		
	25°C		

Figure 2. V_{CE(sat)} vs. I_C

V_R, REVERSE VOLTAGE (V)

Figure 4. Output Capacitance

Figure 3. DC Current Gain



V_{in}, INPUT VOLTAGE (V)

Figure 5. Output Current vs. Input Voltage

I

Figure 6. Input Voltage vs. Output Current



SC-70 (SOT-323) CASE 419 ISSUE R

DATE 11 OCT 2022

GENERIC MARKING DIAGRAM



ΧХ = Specific Device Code

М = Date Code •

= Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-

STYLE 1: CANCELLED	STYLE 2: PIN 1. ANODE 2. N.C. 3. CATHODE	STYLE 3: PIN 1. BASE 2. EMITTER 3. COLLECTOR	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. CATHODE	
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	STYLE 10:	STYLE 11:
PIN 1. EMITTER	PIN 1. BASE	PIN 1. GATE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. CATHODE
2. BASE	2. EMITTER	2. SOURCE	2. CATHODE	2. ANODE	2. CATHODE
3. COLLECTOR	3. COLLECTOR	3. DRAIN	3. CATHODE-ANODE	3. ANODE-CATHODE	3. CATHODE



SC75–3 1.60x0.80x0.80, 1.00P CASE 463 ISSUE H

DATE 01 FEB 2024

RECOMMEND



SOT-1123 0.80x0.60x0.37, 0.35P CASE 524AA ISSUE D

DATE 18 JAN 2024



- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. CONTROLLING DIMENSION: MILLIMETERS.
- 3. MAXIMUM LEAD THI, ASH,

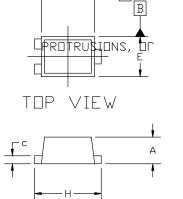
≺ GATE BURRS.

MILLIMETERS						
DIM	MIN	NDM	MAX			
А	0.34	0.37	0.40			
b	0,15	0.22	0.2			
			^ 5			
e	0.35	0.38	0,40			
Н	0.950	1.000	1.050			
L	0.185 REF					
L2	0.05	0.10	0.15			

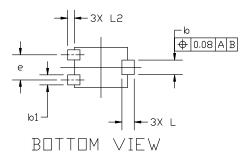
RECOMMENDED

ж

MOUNTING FOOTPRINT







GENERIC MARKING DIAGRAM*



X = Specific Device Code M = Date Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb–Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE	PIN 1. CATHODE	PIN 1. GATE
2. EMITTER	2. N/C	2. ANODE	2. CATHODE	2. SOURCE
3. COLLECTOR	CATHODE	CATHODE	ANODE	3. DRAIN

SOT-723 1.20x0.80x0.50, 0.40P CASE 631AA ISSUE E

DATE 24 JAN 2024

GENERIC MARKING



= Specific Device Code = Date Code ΧХ

Μ

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