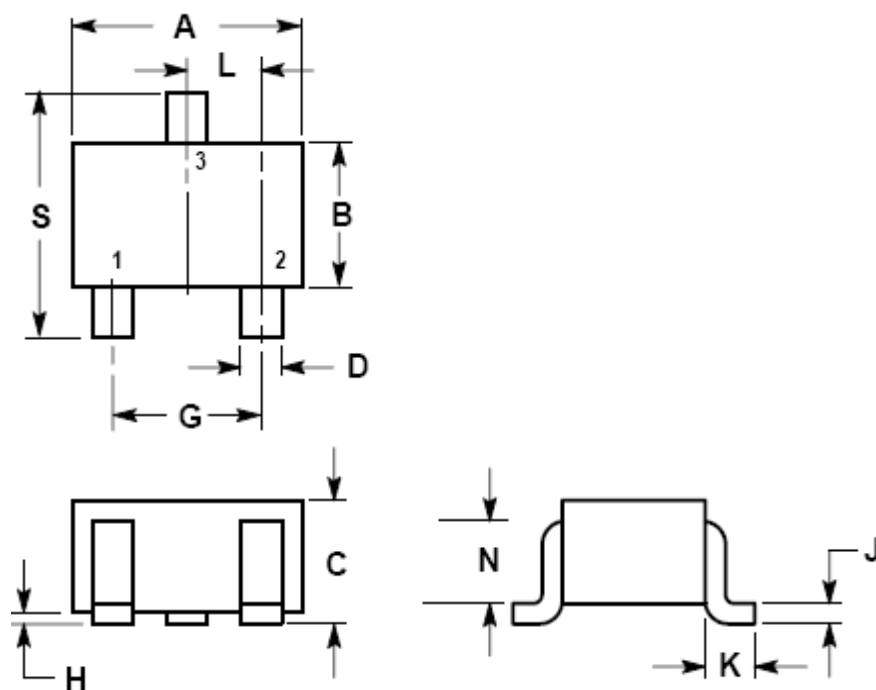


SOT-323 Outline Dimension



Symbol	Dimension In Millimeters	
	Min	Max.
A	1.80	2.20
B	1.15	1.35
C	0.80	1.00
D	0.30	0.40
G	1.20	1.40
H	0.00	0.10
J	0.10	0.25
K	0.425 REF	
L	0.650 BSC	
N	0.700 REF	
S	2.00	2.40

Device Marking:

Device P/N	Marking code
MMST4401	2X

Electrical characteristic curves

Fig.1 Turn-On Time

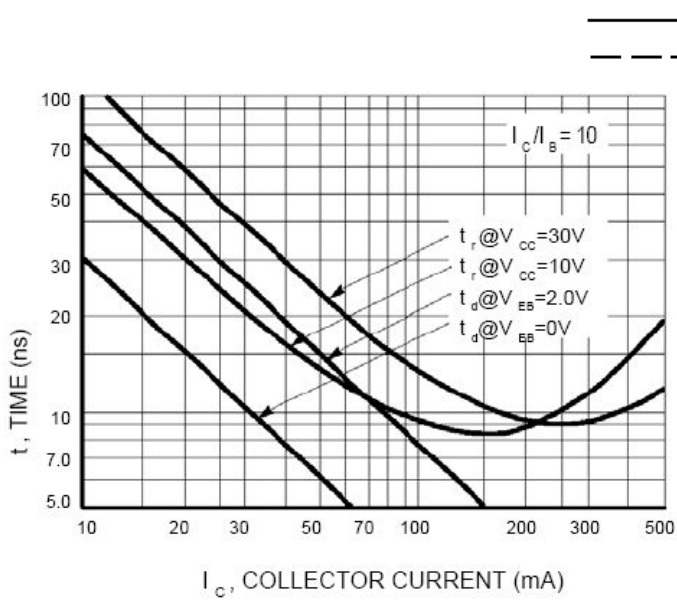


Fig.2 Rise Time & Fall Time

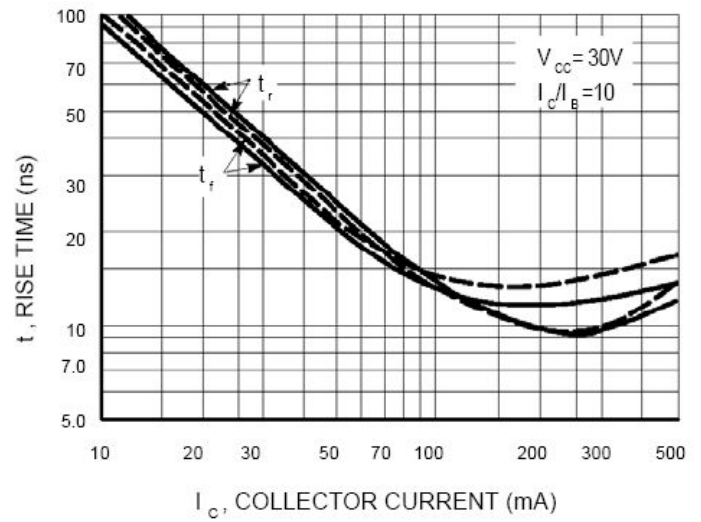


Fig.3 Storage Time

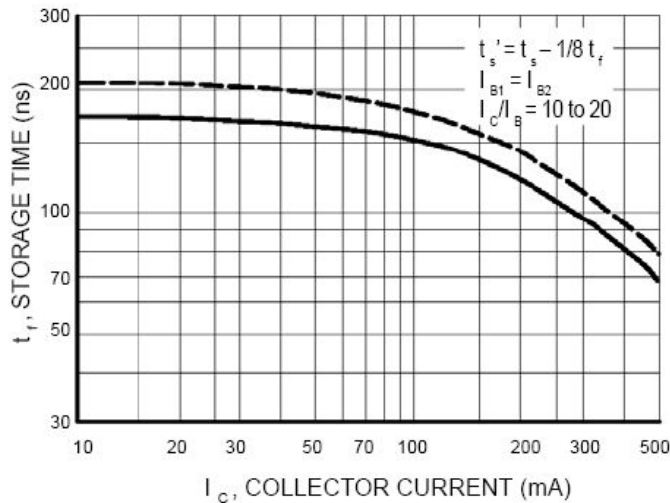


Fig.4 Fall Time

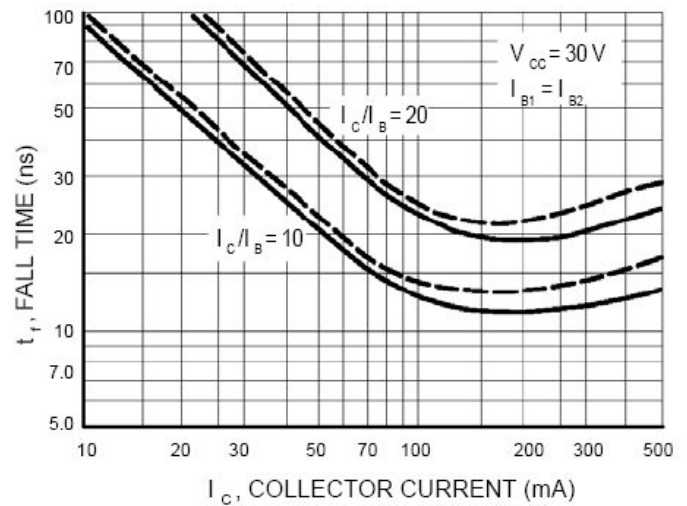
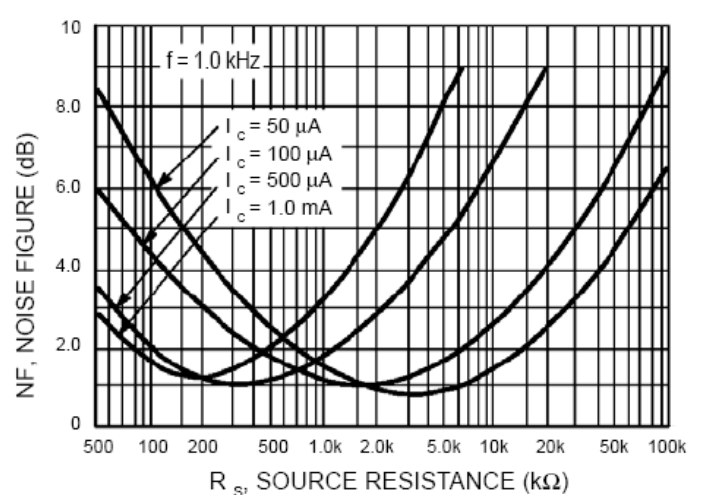
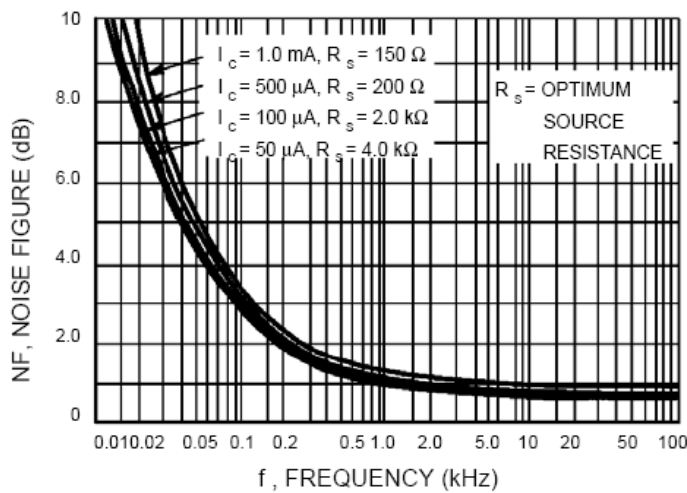


Fig.5 Frequency Effects

Fig.6 Source Resistance Effects

$V_{CE} = 10\text{ Vdc}$, $T_A = 25^\circ\text{C}$
Bandwidth = 1.0 Hz



Electrical characteristic curves

Fig.7 Current Gain

($V_{CE} = 10 \text{ Vdc}$, $f = 1.0 \text{ kHz}$, $T_A = 25^\circ\text{C}$)

This group of graphs illustrates the relationship between h_{fe} and other "h" parameters for this series of transistors. To obtain these curves, a high-gain and a low-gain unit were selected from the LMBT4401WT1G lines, and the same units were used to develop the correspondingly numbered curves on each graph.

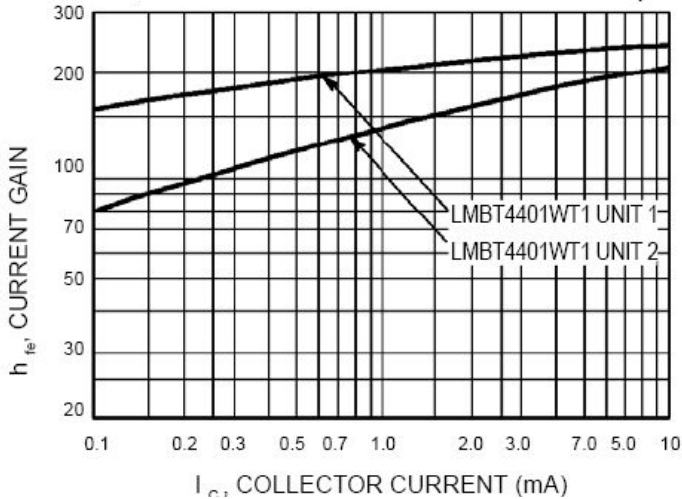


Fig.8 Input Admittance

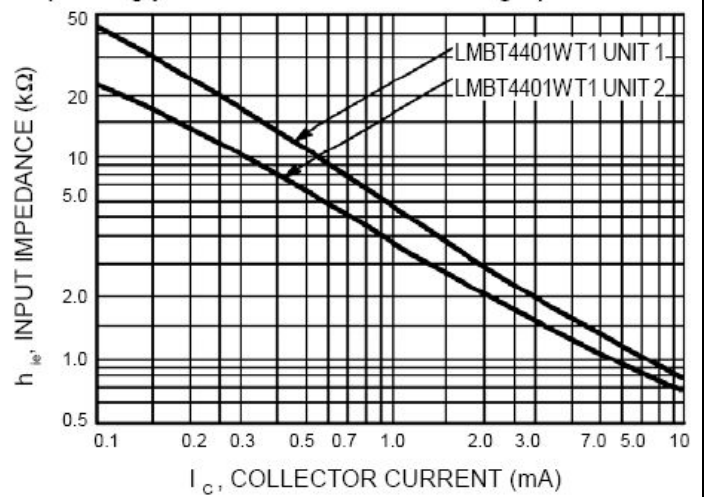


Fig.9 Voltage Feedback Ratio

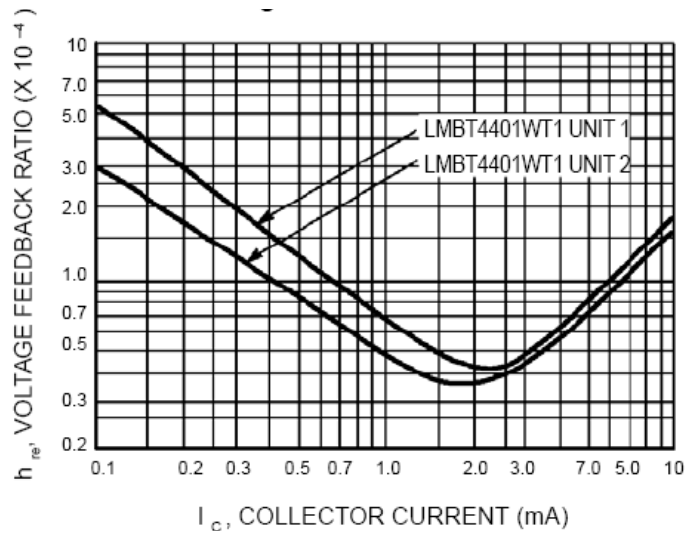


Fig.10 Output Impedance

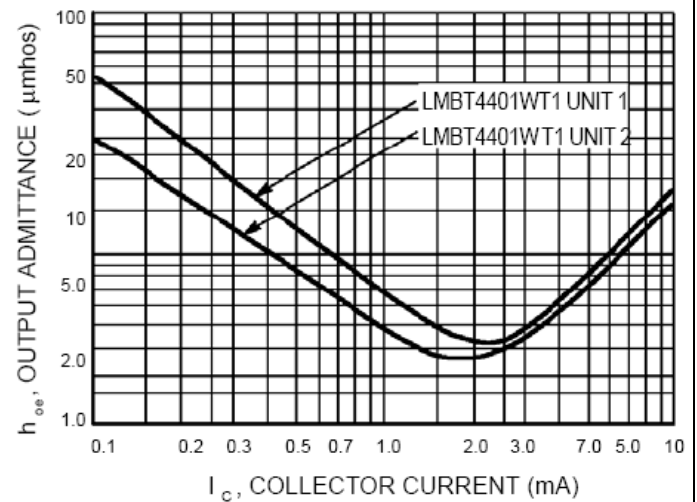
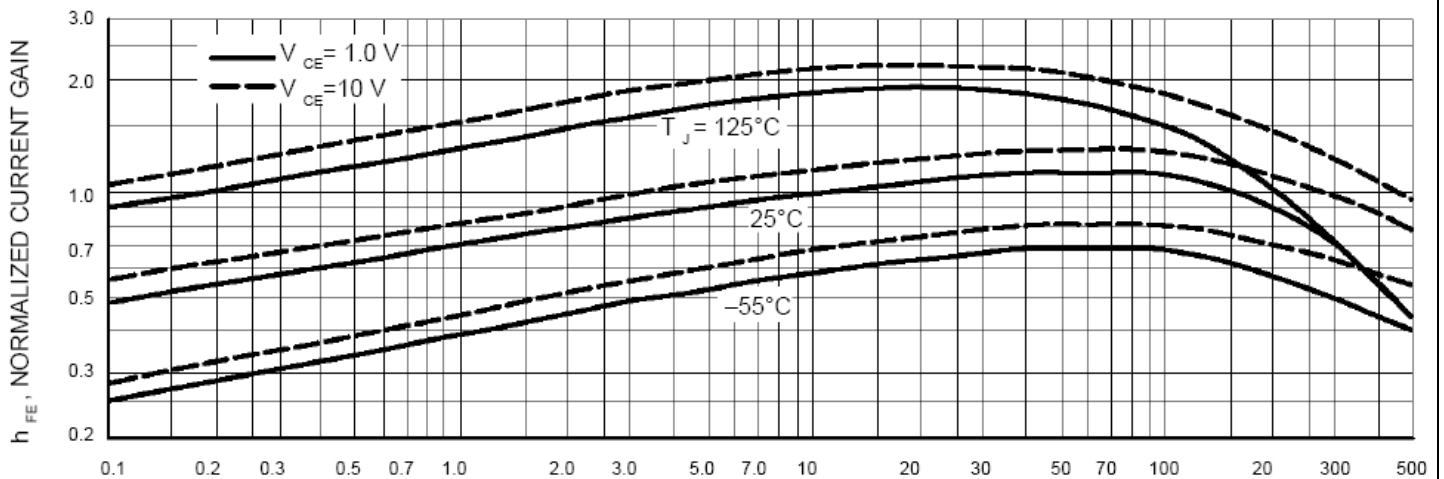


Fig.11 DC Current Gain



Electrical characteristic curves

Fig.12 Collector Saturation Region

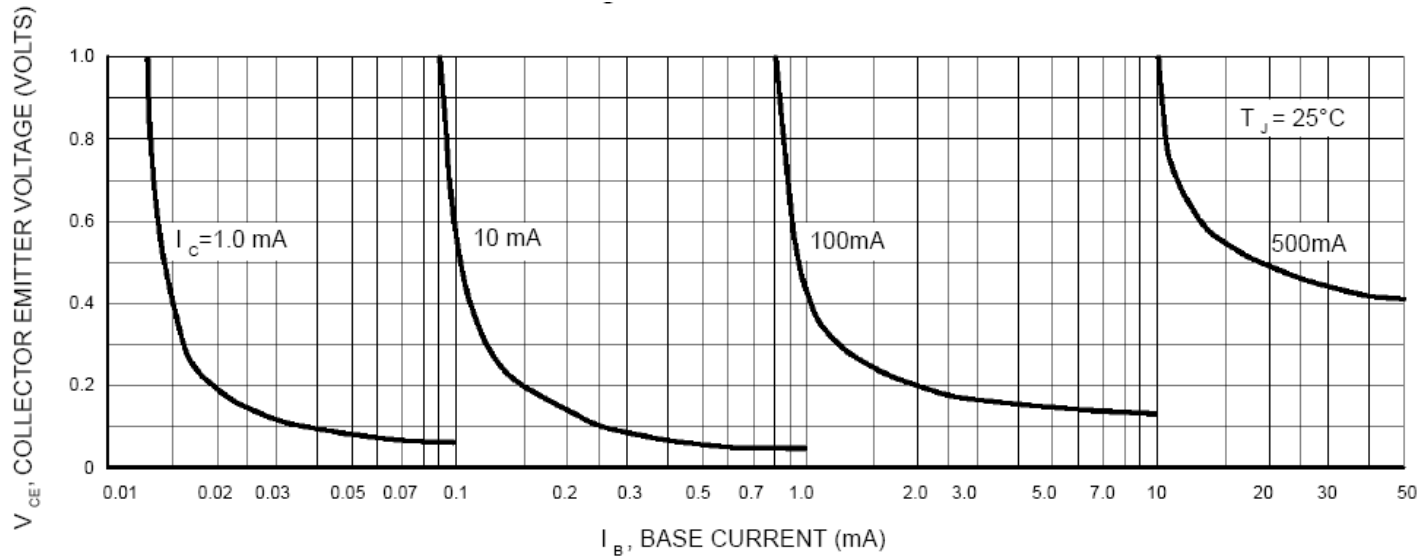


Fig.13 ON Voltage

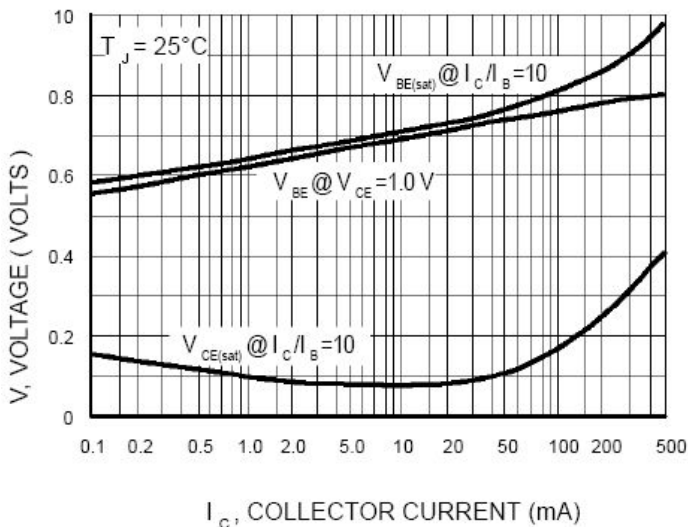


Fig.14 Temperature Coefficients

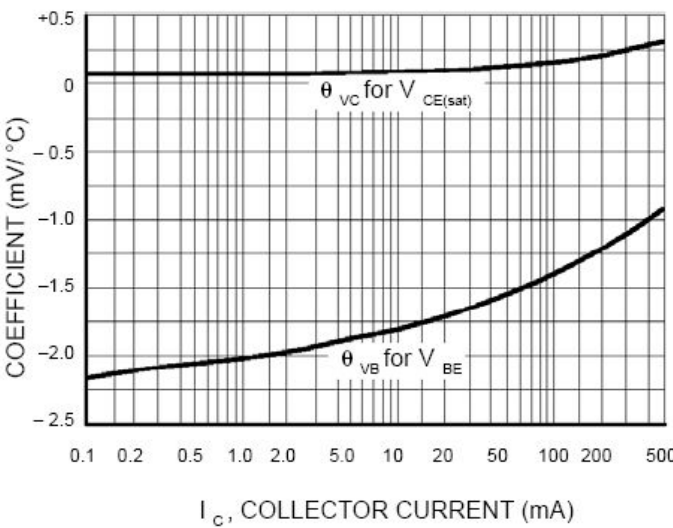


Fig.15 Capacitance

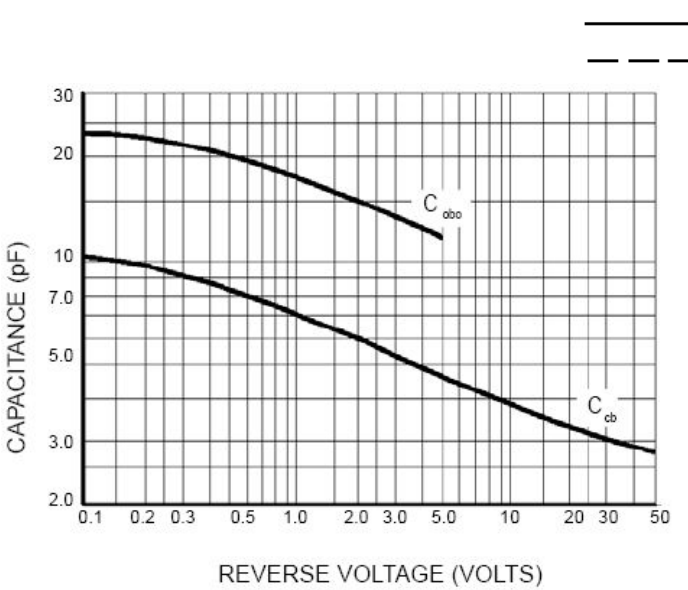
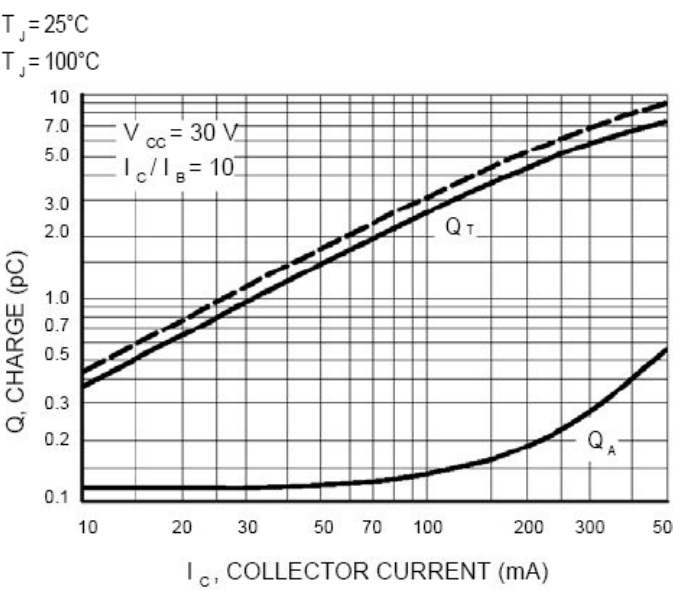


Fig.16 Charge Data



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.

New Marking Rule Notification

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOT-23 / SOT-323 / SOT-523

