

4 OptoCoupler 5 OptoCoupler		may provide insight into date.	
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Japanese Industrial Standard (JIS)

Form: digit, two letters, serial number, [suffix]

Example: 2SA1187, 2SB646

1 st Number designates the type of device	2 Letters	The following figures denote the device serial number	Suffix Optional
1 Diodes 2 Bipolar transistors 3 FET devices	SA: PNP HF transistor SB: PNP AF transistor SC: NPN HF transistor SD: NPN AF transistor SE: Diodes SF: Thyristors SG: Gunn devices SH: UJT SJ: P-channel FET/MOSFET SK: N-channel FET/MOSFET SM: Triac SQ: LED SR: Rectifier SS: Signal diodes ST: Avalanche diodes SV: Varicaps SZ: Zener diodes	Serial number of component yields no indication of function or spec. Since this is a serial number may provide insight into date.	Suffix indicates that the type is approved for use by various Japanese organisations

Manufacturer Specific

Apart from JEDEC, JIS and Pro-electron, manufacturers often introduce their own types, for commercial reasons (ie to get their name into the code) or to emphasise that the range belongs to a specialist application.

Common brand specific prefixes are:

MJ: Motorola power, metal case

MJE: Motorola power, plastic case

MPS: Motorola low power, plastic case

MRF: Motorola HF, VHF and microwave transistor

RCA: RCA

RCS: RCS

TIP: Texas Instruments power transistor (platic case)

TIPL: TI planar power transistor

TIS: TI small signal transistor (plastic case)

ZT: Ferranti

ZTX: Ferranti

Examples- ZTX302, TIP31A, MJE3055, TIS43.